COLUMBIA UNIVERSITY

The Faculty of Medicine College of Physicians & Surgeons

1999-2001

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BULLETIN

COLUMBIA UNIVERSITY

The Faculty of Medicine College of Physicians & Surgeons

1999-2001

COLLEGE OF PHYSICIANS AND SURGEONS
SCHOOL OF MEDICINE COLUMBIA UNIVERSITY
A.D. 1767
A.D. 1926

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ACADEMIC CALENDAR, 1999-2000

The following Academic Calendar was correct and complete as of the time of publication; however, the University reserves the right to revise or amend it, in whole or part, at any time. Information on the current status of the Academic Calendar may be obtained in the Office of Financial and Student Services, 141 Black, 212-305-3477.

MAJOR RELIGIOUS HOLIDAYS

For a statement of University policy regarding religious holidays, see *University Regulations*.

Some of the major holidays are listed below. The Jewish and Islamic holy days begin at sundown of the preceding day. The exact dates for Islamic holy days may vary by one or two days from estimated dates given below.

1999

Saturday, Sunday, September 11, 12	Rosh Hashanah
Monday, September 20	Yom Kippur
Saturday, September 25	First Day of Succoth
Friday, October 1	Last Day of Succoth
Saturday, December 25	Christmas

2000

Thursday, Friday, April 20, 21	First days of Passover
Friday, April 21	Good Friday
Sunday, April 23	Easter
Wednesday, Thursday, April 26, 27	Last days of Passover
Friday, Saturday, June 9, 10	Shavuot

1999

JUNE

27 Sunday. The Student Clinicians' Ceremony for the Class of 2001 (2nd to 3rd year transition ceremony).

28 Monday. Class of 2001 reports to MCY hospital rotations.

30 Wednesday. Awarding of June degrees.

JULY

1 Thursday. Class of 2000 reports to fourth year electives.

5 Monday. Independence Day holiday observed for third and fourth year students.

AUGUST

23-27 Monday-Friday. Orientation for first year students, Class of 2003.

26 Thursday. Registration for first year students.

27 Friday. White Coat Ceremony for first year students, Class of 2003.

30 Monday. Academic year begins for first and second year students.

SEPTEMBER

6 Monday. Labor Day holiday for first, second and third year students.

OCTOBER

18 Monday. Deadline to have completed USMLE I, Class of 2001.

20 Wednesday. Awarding of October degrees.

NOVEMBER

25 Thursday. Thanksgiving holiday for third year students.

25-26 Thursday, Friday. Thanksgiving holiday for first and second year students.

DECEMBER

14 Tuesday. Deadline to have completed USMLE II, Class of 2000.

18 Saturday through Sunday, Jan, 2. Vacation for third year students.

21 Tuesday through Sunday, Jan, 2. Vacation for first and second year students.

2000

JANUARY

3 Monday. Resumption of classes for first and second year students. Resumption of clerkships for third year students.

17 Monday. Martin Luther King's Birthday (observed). Holiday for first and second year students.

FEBRUARY

9 Wednesday. Awarding of February degrees.

21 Monday. Washington's Birthday (observed). Holiday for first and second year students.

MARCH

1 Wednesday. Deadline to have repeated USMLE II.

APRIL

1-9 Saturday through Sunday, April 9. Spring vacation for first year students.

15-23 Saturday through Sunday, April 23. Spring vacation for second year students.

MAY

10 Wednesday. Dean's Day for Medical Student Research.

11 Thursday. Last day of classes for second year students.

17 Wednesday. Columbia University Commencement and Convocation of the College of Physicians and Surgeons.

18 Thursday. Last day of classes for first year students.

24 Wednesday. Last exam for second year students.

29 Monday. Memorial Day holiday for first, second and third year students.

30 Tuesday. Last exam for first year students.

JUNE

23 Friday. Major Clinical Year concludes for Class of 2001.

25 Sunday. Tentative date for The Clinicians' Ceremony for the Class of 2002 (2nd to 3rd year transition ceremony).

26 Monday. Major Clinical Year begins for Class of 2002. USMLE I required prior to starting the MCY.

30 Friday. Awarding of June degrees.

JULY

3 Monday. Class of 2001 reports to fourth year electives.

4 Tuesday. Independence Day holiday observed for third and fourth year students.

Holidays not specified on this calendar are decided by Course Directors in each course in first and second years, and by Course Directors in each course in each teaching hospital in third and fourth years.

DATES OF UNITED STATES MEDICAL LICENSING EXAMINATIONS 1999-2000

1999

OCTOBER

18 Monday. Deadline for USMLE I, Class of 2001. Passing required for graduation from P&S.

DECEMBER

14 Tuesday. Deadline for USMLE II, Class of 2000. Passing required for graduation from P&S.

2000

MARCH

1 Wednesday. Deadline to have repeated USMLE II.

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RAFFAELE LATTES Professor Emeritus of Surgical Pathology
JOHN K. LATTIMER Professor Emeritus of Urology
EDGAR LEIFER Professor Emeritus of Clinical Medicine
SEYMOUR LIEBERMAN Professor Emeritus of Biochemistry & Molecular Biophysics
JAMES W. LITTLER Professor Emeritus of Clinical Surgery
BARBARA W. LOW Professor Emeritus of Biochemistry & Molecular Biophysics
ROGER A. MACKINNON Professor Emeritus of Clinical Psychiatry
SIDNEY MALITZ Professor Emeritus of Clinical Psychiatry
JAMES R. MALM Professor Emeritus of Surgery
WLADYSLAW MANSKI Professor Emeritus of Ophthalmology
LESTER C. MARK Professor Emeritus of Anesthesiology
HERBERT J. MARX Clinical Professor Emeritus of Medicine
RICHARD L. MASLAND Merritt Professor Emeritus of Neurology
GEORGE R. MERRIAM, JR. Professor Emeritus of Clinical Ophthalmology
ARMAND F. MIRANDA Professor Emeritus of Clinical Pathology
JANE H. MORSE Professor Emeritus of Clinical Medicine
MELVIN L. MOSS Professor Emeritus of Anatomy & Cell Biology and Dental & Oral Surgery
LESTER A. MOUNT Professor Emeritus of Clinical Neurological Surgery
EQUINN MUNNELL Professor Emeritus of Clinical Obstetrics & Gynecology
GABRIEL G. NAHAS Professor Emeritus of Anesthesiology
CHARLES S. NEER, II Professor Emeritus of Clinical Orthopedic Surgery
CHARLES R. NOBACK Professor Emeritus of Anatomy & Cell Biology
MERO R. NOCENTI Professor Emeritus of Physiology & Cellular Biophysics
ELADIO A. NUNEZ Professor Emeritus of Anatomy & Cell Biology
JOSEPH L. O'BRIEN Clinical Professor Emeritus of Neurology
JOHN E. OLSON Clinical Professor Emeritus of Surgery
LUCIANO OZZELLO Professor Emeritus of Surgical Pathology
BERNARD L. PACELLA Clinical Professor Emeritus of Psychiatry
EMIL F. PASCARELLI Professor Emeritus of Clinical Medicine
HILDA PEDERSEN Professor Emeritus of Clinical Anesthesiology
AUDREY S. PENN Professor Emeritus of Neurology
BENVENUTO PERNIS Professor Emeritus of Microbiology and Medicine
KARL H. PERZIN Professor Emeritus of Clinical Surgical Pathology
HELEN F. PETTIT Professor Emeritus of Nursing
KERMIT L. PINES Professor Emeritus of Clinical Medicine
CONRAD PIRANI Professor Emeritus of Pathology
MAUREEN POH-FITZPATRICK Professor Emeritus of Dermatology
GENE-ANN POLK Professor Emeritus of Clinical Pediatrics
J. LAWRENCE POOL Professor Emeritus of Neurological Surgery
GUY D. POTTER Professor Emeritus of Clinical Radiology
JOHN B. PRICE Professor Emeritus of Surgery
HERBERT RACKOW Professor Emeritus of Anesthesiology
ROBIN M. RANKOW Professor Emeritus of Clinical Otolaryngology
MAURICE M. RAPPORT Professor Emeritus of Biochemistry & Molecular Biophysics
HARALD H. ROSSI Professor Emeritus of Radiation Oncology
CHARLES T. RYDER Professor Emeritus of Clinical Orthopedic Surgery
ERNEST SALANITRE Professor Emeritus of Clinical Anesthesiology
ANGUS C. SAMPATH Clinical Professor Emeritus of Pathology (in Microbiology)
DORCAS SAMPLE Clinical Professor Emeritus of Medicine
SAUL L. SANDERS Clinical Professor Emeritus of Dermatology
WILBUR H. SAWYER Pfeiffer Professor Emeritus of Pharmacology
RALPH SCHLAEGER Professor Emeritus of Clinical Radiology
JOHN N. SCHULLINGER Professor Emeritus of Clinical Surgery
MILES J. SCHWARTZ Professor Emeritus of Clinical Medicine
WILLIAM B. SEAMAN Picker Professor Emeritus of Radiology
WILLIAM H. SEBRELL, JR. Williams Professor Emeritus of Nutrition
MARVIN L. SHELTON Professor Emeritus of Clinical Orthopedic Surgery
DAVID SPRINSON Professor Emeritus of Biochemistry & Molecular Biophysics
BENNETT M. STEIN Stookey Professor Emeritus of Neurological Surgery
ZENA A. STEIN Professor Emeritus of Public Health (Epidemiology) (in the Sergievsky Center and Psychiatry)
RICHARD J. STOCK Clinical Professor Emeritus of Medicine
MERVYN W. SUSSER Sergievsky Professor Emeritus of Public Health (Epidemiology)
M. LEON TANCER Professor Emeritus of Clinical Obstetrics & Gynecology

VIRGINIA M. TENNYSON Professor Emeritus of Anatomy & Cell Biology and Pathology

W. DUANE TODD Professor Emeritus of Clinical Obstetrics & Gynecology

LUBOS TRINER Professor Emeritus of Anesthesiology

FRANK W. VAN DYKE Professor Emeritus of Public Health (Administrative Medicine)

THEODORE B. VAN ITALLIE Professor Emeritus of Medicine

RALPH VEENEMA Professor Emeritus of Clinical Urology

HENRY VOGEL Delafield Professor Emeritus of Pathology and Microbiology

HSUEH HWA WANG Professor Emeritus of Pharmacology

HARVEY J. WEISS Professor Emeritus of Medicine

ROBERT J. WEISS Delamar Professor and Dean Emeritus of Public Health

ROBERT T. WHITLOCK Professor Emeritus of Clinical Medicine

WALTER A. WICHERN, JR. Professor Emeritus of Clinical Surgery

ROGER WILLIAMS Professor Emeritus of Public Health (Medical Entomology)

MYRON WINICK Williams Professor Emeritus of Nutrition (in Pediatrics)

SAMUEL M. WISHIK Professor Emeritus of Public Health (Public Health Practice)

JAMES WOLFF Professor Emeritus of Pediatrics

JOE D. WRAY Professor Emeritus of Clinical Public Health (Center for Population & Family Health)

THE COLLEGE OF PHYSICIANS & SURGEONS AND AFFILIATED HOSPITALS

The College of Physicians and Surgeons is guided by the principle that medical education is university education. The acquisition of knowledge and skills is important in professional education, but far more vital is a profound understanding of the science, the art, and the ethic within which both knowledge and skill are applied. As a part of Columbia University, the College builds its curriculum, selects its officers of instruction, and marshals its enormous resources of equipment and clinical experience to develop in the student this understanding of medicine. Within the curriculum for the M.D. degree is the fundamental knowledge upon which later specialization is built, and from which the natural bent is discovered toward general or special practice, or toward research, teaching, or administration. The postgraduate programs of the College provide training in the specialties, help the graduate physician to keep abreast of the new knowledge, and support the research from which the physician's knowledge develops.

HISTORY OF THE COLLEGE AND UNIVERSITY

Columbia University began as King's College, which was founded in 1754 by royal grant of George II, King of England, "for the Instruction of Youth in the Learned Languages, and the Liberal Arts and Sciences." The American Revolution interrupted its program, but in 1784 it was reopened as Columbia College. In 1912 the title was changed to Columbia University in the City of New York.

King's College organized a medical faculty in 1767 and was the first institution in the North American Colonies to confer the degree of Doctor of Medicine. The first graduates in medicine from the College were Robert Tucker and Samuel Kissam, who received the degree of Bachelor of Medicine in May 1769, and that of Doctor of Medicine in May 1770 and May 1771, respectively. Instruction in medicine was given until interrupted by the Revolution and the occupation of New York by the British, which lasted until November 25, 1783. In 1784 instruction resumed in the academic departments, and in December of the same year the medical faculty was reestablished. In 1814 the medical faculty of Columbia College was merged with the College of Physicians and Surgeons, which had obtained an independent charter in 1807. In 1860, by agreement between the Trustees of the two institutions, the College of Physicians and Surgeons became the Medical Department of Columbia College; for several years, the diplomas of the graduates were signed by the President of Columbia College as well as by the President of the College of Physicians and Surgeons. The connection was only a nominal one, however, until 1891, when the College was incorporated as an integral part of the University. Since September 1917, women have been admitted to the College on the same basis as men.

The Columbia-Presbyterian Medical Center was opened in the spring of 1928, seven years after the establishment of a permanent alliance between Columbia University and the Presbyterian Hospital. It consists of the following units: the divisions of the University Faculty of Medicine (the College of Physicians and Surgeons, the School of Nursing, the School of Public Health); the University School of Dental and Oral Surgery; the Presbyterian Hospital and its subdivisions; the New York State Psychiatric Institute; and the Washington Heights Health and Teaching Center.

The Medical Center occupies a plot of land given to Columbia University and the Presbyterian Hospital by Mrs. Stephen V. Harkness and Mr. Edward S. Harkness. It comprises about 20 acres extending from West 165th Street to West 168th Street and from Broadway to Riverside Drive and is readily accessible from all parts of the city. A map of the Medical Center is printed on the last page of the Bulletin.

The College of Physicians and Surgeons is at 630 West 168th Street between Broadway and Fort Washington Avenue in a 17-story building, each floor of which connects with the wards and services of New York Presbyterian Hospital. The William Black Medical Research Building is a 20-story building, containing research laboratories for the faculty members of the College of Physicians and Surgeons. It is connected with the College building and is located at 168th Street and Fort Washington Avenue. The Julius and Armand Hammer Health Sciences Center, a 20-story structure diagonally opposite the William Black Medical Research Building opened its teaching, research, and library facilities in 1976.

OFFICE OF SCHOLARLY RESOURCES

AUGUSTUS C. LONG HEALTH SCIENCES LIBRARY

The Augustus C. Long Health Sciences Library is located in the Hammer Health Sciences Center, 701 West 168th Street. The Library serves the schools of Medicine, Dentistry, Nursing, and Public Health; New York Presbyterian Hospital, and other health care, instructional, and research programs in the Columbia-Presbyterian Medical Center.

The Health Sciences Library is one of the largest academic medical libraries in the country. Its collection includes approximately 500,000 volumes, over 4,400 currently received periodicals, and a large collection of audiovisual material. Also included in the Library's collection are the resources of Archives and Special Collections, consisting of rare and unique materials that document the history of medicine and medical education at the Columbia-Presbyterian Medical Center. Among these are the Florence Nightingale Collection, the Sigmund Freud Library, and the Jerome P. Webster Library of Plastic Surgery.

The Library supports a growing number of electronic resources available through the CPMC network and also via the Library's web site on CPMCnet. These include databases such as MEDLINE, electronic journals and full texts, and links to health sciences resources on the Internet.

The Library offers a wide array of services including instruction in using library and electronic resources, individual consultation on research topics, reserve readings, interlibrary borrowing, and a fax service. The library also houses a full-service Photocopy Center, offering self-service photocopy machines, article retrieval and photocopy service, high-volume photocopying, and color copying service.

The Health Sciences Library's home page at http://cpmcnet.columbia.edu/library/ has a complete description of hours, services, and resources. Users can also e-mail queries to hslibrary@columbia.edu.

Students and faculty at the Health Sciences campus are entitled to privileges at any of the Columbia University libraries. The main collection is housed in other buildings on the campus. A complete guide to the University Libraries is available online at http://www.columbia.edu/cu/libraries/.

CENTER FOR ACADEMIC INFORMATION TECHNOLOGY

The Center for Academic Information Technology (CAIT) provides computer services and resources to support education and research at the Health Sciences campus, including computer labs and classrooms, development and delivery of online curriculum and multimedia, assistance in connecting to and using the campus network, computer support for the Health Sciences Library, and development and administration of CPMCnet, the primary Internet and World Wide Web server and gateway of the Columbia-Presbyterian Medical Center (http://cpmcnet.columbia.edu/).

The Center is located on the second floor of the Health Sciences Library. Computer labs maintained by CAIT are located in the Center, in the Student Learning Center (Presbyterian Hospital, 17th floor), and in a room adjacent to the lobby of the Hammer Building that is open 24 hours. A wide range of general applications, such as word processing, presentation graphics, and statistical analysis are supported on Windows and Macintosh computers in the labs. The Center also provides access to printing, electronic mail, and campus-wide network resources. Assistance with viruses, damaged files, and file conversion/transfer is provided at the Center's service desk. An extensive workshop program provides hands-on training in computer applications, electronic mail, and Internet navigation. Further information is available at the service desk or online (http://cpmcnet.columbia.edu/computers/cait/).

CENTER FOR CURRICULUM EVALUATION AND FACULTY SUPPORT

The Center for Curriculum Evaluation and Faculty Support assists course directors and faculty in the development and implementation of strong and innovative educational programs. Ongoing feedback from students about the courses, lectures, and educational materials that make up the curriculum is a valuable component in efforts to ensure that programs are of the highest quality. Throughout the year, students may be asked to complete evaluation surveys, participate in formal discussion sessions to assess various aspects of the curriculum, and/or review new materials to support the curriculum. Student comments and suggestions are solicited regularly and greatly appreciated.

In addition, the Center for Curriculum Evaluation and Faculty Support operates a Test and Survey Scanning Service. Available for both faculty use and student projects, the facility is located in the Photocopy Center on LL1 of the Health Sciences Library. The service provides scanning of National Computer Systems (NCS) bubble-sheet forms for course examinations, course evaluation surveys, and research surveys. Basic statistical and summary reports on scanned data are supplied and the scanned data also are available in flat ASCII files. A handbook of policies and procedures is available at the facility. Visit the center's web site at http://cpmcnet.columbia.edu/dept/ccefs/.

HERBERT IRVING COMPREHENSIVE CANCER CENTER

The mission of the Herbert Irving Comprehensive Cancer Center is to provide the organizational infrastructure and the resources to promote interdisciplinary laboratory, clinical and population based cancer research and to facilitate the application of this research to cancer prevention, diagnosis and treatment, especially for patients in the tri state region (Northern New Jersey, Southeastern New York and Southwestern Connecticut) served by this Cancer Center. Furthermore the Cancer Center provides education and training in cancer research for scientists, clinical investigators and health professionals at all levels as well as for patients and the lay community. These objectives are facilitated by an organizational structure that has four major divisions: 1) Laboratory Research; 2) Clinical Research; 3) Cancer Causation, Prevention, and Control and 4) Core Facilities. Essential support is provided by the Office of Administration and a Visiting Scientific Advisory Committee. Fields of research are organized into a total of 11 programs that facilitate research within a given discipline and foster interdisciplinary collaboration. Fourteen shared core facilities provide state-of-the-art expertise, technology and resources.

INSTITUTE OF CANCER RESEARCH

The Institute of Cancer Research of Columbia University College of Physicians and Surgeons was established in 1911 with funds bequeathed to the University by George Crocker. It moved from its original quarters on 116th Street to the campus of the Columbia-Presbyterian Medical Center in 1938.

The Institute of Cancer Research provides an intellectually exciting environment characterized by extensive interactions among research scientists representing different fields of interest. The common research theme is the exploration and elucidation of molecular mechanisms relating to the control of gene expression, cell cycle, and recombination in normal and neo-plastic cells.

Current research emphasis is on the analysis of factors that regulate transcription initiation and termination in yeast and in bacteria. The signals and the functions that induce the meiotic pathway in yeast are under study. Other programs are focused on the analysis of the steps in carcinogenesis, on oncogene-induced dedifferentiation, or on the regulation of cell cycle progression in normal and cancer cells. There is intense interest in the developmentally regulated appearance of membrane receptors. The institute also supports a program that studies recombination pathways in yeast and higher organisms.

As part of their curriculum, students from the departments of Biochemistry and Molecular Biophysics, Genetics and Development, and Microbiology, and the Integrated Ph.D. Program in Cellular, Molecular, and Biophysical Studies rotate through various laboratories within the institute to gain research experience. Selected students conduct doctoral research under the supervision of faculty members who are approved by the Executive Committee of the Graduate School to sponsor Ph.D. dissertations. The Institute of Cancer Research maintains an active intellectual environment, offering seminars, visiting speakers, and free exchange of information and other forms of cooperation and collaboration between the laboratories of the institute and those of the University's academic departments.

STROUD CENTER

In 1990, this Center was named in honor of Dr. Morris W. Stroud III; it includes the Center for Genetics and Gerontology, established in 1979. The programmatic theme is quality of life in health and aging. Research activities cover the lengthening of active life, effects of early dementia, suffering caused by depression, limitations due to cardiac failure, laboratory studies of functioning, genetics of independence in self-care, and development of theory. Continuing education emphasizes quality of life in health services; it is conducted through the Center's Psychogeriatric Fellowship and Center for Geriatric Education. Clinical models in demonstration sites feature use of quality of life information to help practitioners and patients reach shared goals.

HOWARD HUGHES MEDICAL INSTITUTE PROGRAM IN MOLECULAR NEUROBIOLOGY

The Program is one of several Hughes Medical Institute Programs in the country to be devoted to the neurosciences. Its establishment in 1984

made possible the scientific integration of the College's widely acclaimed research efforts in neurobiology of ion channels, learning, development, and critical areas of molecular genetics. In addition to five established investigators in these fields, the center personnel include postdoctoral fellows, staff scientists, and support staff.

HOWARD HUGHES MEDICAL INSTITUTE PROGRAM IN STRUCTURAL BIOLOGY

Begun in 1986, the program is part of a larger effort by the Institute, which houses several of its research laboratories in various medical centers. The program at Columbia focuses on bio-physical studies of molecular structure with three major areas of activity: direct research activities in diffraction studies of macromolecular structure and function, core facilities for molecular biophysics, and a synchroton radiation resource at Brookhaven National Laboratory.

CENTER FOR THE STUDY OF SOCIETY AND MEDICINE

The Center for the Study of Society and Medicine is an interdisciplinary institution, examining the complex interactions between medicine and society. To broaden the training for health care professionals, Center faculty use historical, sociological, literary, and philosophical methods to analyze clinical practices and biomedical research. Through an understanding of medicine in its full social and cultural context, the Center works to inform patient care and public policy. The principle faculty members teach the ethics and social medicine concepts in the pre-clinical curriculum. They also conduct seminars, independent research and domestic and international clerkships for medical students. The Center's programs focus on medicine's relation with the humanities, society, human rights, public policy, and ethics as well as on care at the end of life, urban medicine, and immigrant health care. Faculty's research topics include medical enhancement technologies, medical professionalism, breast cancer screening policies, ethical issues in human experimentation, and organ transplantation.

IRVING CENTER FOR CLINICAL RESEARCH

The Irving Center for Clinical Research is a core facility that provides resources to clinical investigators to stimulate multidisciplinary, intensive investigation of human disease and clinical pharmacology. The most significant portion of the Irving Center is a General Clinical Research Center, funded by the NIH, which has served clinical investigators at the medical center since 1971.

The Irving Center is situated on the 10th floors of the old Presbyterian Hospital and Harkness Pavilion buildings. The far-sighted philanthropy of Herbert and Florence Irving contributed to CPMC a state-of-the-art environment for clinical research. The Center contains a core laboratory for nonroutine assays on clinical specimens from patients; a data management unit with a biometrics computer group to help investigators not only in computer-based data storage, but also in the design and analysis of research studies; a specially-designed clinical research unit for studies of drug abuse; an outpatient center with five examination-interview rooms; a bionutrition unit for preparation of special research meals and other nutrition activities that support protocols; and a 16-bed inpatient unit with private rooms. Specialized research equipment in the inpatient unit includes beds wired for cardiac telemetry connected to a central monitoring station in the Milstein Hospital Building, a tilt table and exercise equipment for cardiovascular studies; and a sleep study room with a connecting observation room.

Pediatric facilities include both an inpatient unit on Babies Hospital 11 South and an outpatient facility located in Vanderbilt Clinic 3 301

GERTRUDE H. SERGIEVSKY CENTER

The Sergievsky Center faculty focuses on epidemiology approaches to the study of neuro-developmental disorders throughout the life span. Areas of major concentration include epilepsy and seizure disorders, degenerative diseases of the nervous system, cerebral palsy and related developmental disorders of the nervous system in infants and children, and neurologic disorders of major public health impact. The allied disciplines in the health sciences represented in the center, in addition to epidemiology, include biostatistics, human genetics, neurology of adults and children, obstetrics, pediatrics, physiology, psychiatry of adults and children, psychology, and social sciences. Funded with an endowment, it also participates in the teaching programs of the epidemiology division of the School of Public Health and the Departments of Neurology, Psychiatry, and Pediatrics and provides a major resource in epidemiology research and training in the epidemiology of diseases of the nervous system.

NEW YORK STATE CENTER FOR ADVANCED TECHNOLOGY IN HIGH-PERFORMANCE COMPUTING AND COMMUNICATIONS IN HEALTH CARE

The Center for Advance Technology, sponsored by the New York State Science and Technology Foundation, includes faculty from the P&S Department of Medical Informatics and the Columbia Genome Center, as well as the Department of Computer Science on the Morningside Campus. The technology transfer organization concentrates on helping vendors and consulting firms that focus on health care information systems to enhance or develop products based upon high-performance computing and communication systems.

RICHARD AND HINDA ROSENTHAL CENTER FOR COMPLEMENTARY AND ALTERNATIVE MEDICINE

The Richard and Hinda Rosenthal Center for Complementary and Alternative Medicine was established to conduct and critically evaluate research, to develop training and educational programs for healthcare professionals, and to serve as a resource for those who want comprehensive, objective information on complementary and alternative medicine. The center does not provide clinical services, nor is its role one of advocacy. It does support clinical and basic research projects that span a spectrum of faculty interests. Phytomedicine is one area of particular focus; women's health is another.

The Center attracts faculty collaborators from the various schools and departments at the medical center and the Columbia University campus more broadly. Center projects include: developing an international database and information resource on alternative medicine, compiling a directory of alternative medicine resources available at Columbia, studies of herbal remedies with an initial focus on menopause and breast cancer, and an 'urban ethnobotany' project in New York City in collaboration with the New York Botanical Garden. Several international collaborations are underway, and development of a summer fellowship abroad for practitioners and researchers who want to learn more about various traditional medical systems is being planned. The Center strives to support policies that help to conserve botanical resources and the diverse traditional medical knowledge of the use of those resources.

Curriculum development and research training programs are being developed to promote knowledge, understanding and credible scientific

efforts in alternative and complementary medicine. The Center, based in the Department of Rehabilitation Medicine, sponsors an elective course on complementary and alternative medicine for the second-year medical students, an alternative medicine grand-rounds series, annual lectures, and symposia on special topics. It also sponsors an annual Continuing Medical Education course on 'Botanical Medicine in Modern Clinical Practice,' for physicians, nurses and other health care providers.

The Center's web site disseminates information about its programs, compiles information sheets on selected topics, and provides links to other relevant sources of information. The web site address is: http://cpmcnet.columbia.edu/dept/rosenthal/.

INSTITUTE OF HUMAN NUTRITION

The Institute of Human Nutrition is an interdisciplinary unit whose mission is to study all aspects of nutrition that relate to human health. The Institute serves to conduct, coordinate, and lead nutrition research and education activities throughout Columbia University and its affiliated institutions. A long-standing mission of the Institute is to train individuals for scholarly activities and for positions in universities and research centers that are in the forefront of the movement to advance nutrition as a health science. In addition, the Institute seeks to augment the training of physicians and other health specialists who are interested in emphasizing nutrition in their professions.

To achieve this integration of purpose and at the same time allow for the specialization necessary for the best research and teaching, the Institute functions to coordinate academic nutrition activities being carried out within many units (Faculties, Departments, Centers) within the Columbia University system. Although each unit conducts its own program of research and training, combined research projects among the units are under way and joint seminars and courses involving faculty members and students in all units are conducted regularly.

The Master of Science Program is administered by the Postgraduate Division of the Faculty of Medicine. Ph.D. degrees in nutrition are awarded by the Graduate School of Arts and Sciences of Columbia University. Application to the Ph.D. program should be made to the program at 701 W. 168th Street, Room 406, New York, NY 10032. For further information, please contact the Institute of Human Nutrition, 630 W. 168th Street, Presbyterian Hospital 15 East-1512, New York, NY 10032.

INTERNATIONAL INSTITUTE FOR THE STUDY OF HUMAN REPRODUCTION

The International Institute for the Study of Human Reproduction was founded in 1965 by Dr. Howard C. Taylor and was made possible by a substantial grant from the Ford Foundation. The primary purpose of the founders was to foster research in the sciences relevant to the solution of the world population problem. In more recent years, the aims of the institute have been interpreted more broadly to include teaching, research, and the provision of clinical and social services related to the reproductive health of men and women.

THE CENTER FOR POPULATION AND FAMILY HEALTH

The Center for Population and Family Health addresses the reproductive, adolescent and child health conditions that confront communities throughout the world, in both settled communities and ones that have been displaced as a result of political or environmental emergencies. In addition to international activities, the Center has a particular interest in the needs of the communities in which the Center is located, in northern Manhattan. The Center contributes to the improvement of community health by supporting activities and programs that educate future generations of public health workers, provide direct services to populations in need, and promote research and policy analyses that increase our knowledge and that contribute to the quality of service-delivery programs.

The Center is committed to these areas of education, service and research, not as distinct and isolated categories, but rather as highly interdependent activities. The Center's goal of improving community health will be achieved when teaching, service and research contribute, in a coordinated way, to identifying and implementing strategies to improve health.

An important component of the Center's work is a series of public health services that the Center provides in Washington Heights, a low income and largely Latino and African-American neighborhood. In collaboration with New York Presbyterian Hospital, the Center operates family planning clinics and a Head Start program for preschoolers. The Center has approximately 150 staff members and a budget that is largely funded by government agencies, foundations, individuals and Columbia University.

The Center for Population and Family Health is located at 60 Haven Avenue, Floor B-2, New York, NY 10032. The Center's phone number is (212) 304-5200.

AUDUBON BIOMEDICAL SCIENCE AND TECHNOLOGY PARK

Columbia University's Audubon Biomedical Science and Technology Park, the first and only biomedical research and biotechnology park in New York City, opened its doors in October 1995, when government officials joined Columbia leaders in dedicating the park's first building, the Mary Woodard Lasker Biomedical Research Building. The second building, the Russ Berrie Medical Science Pavilion, was dedicated in May 1997. The park, located east of Broadway in Columbia-Presbyterian Medical Center's first expansion to the east, is strategically important in enabling the University to advance its research program, strengthen links with industry, and revitalize the surrounding neighborhood. The Lasker Building houses the Audubon Business and Technology Center, which nurtures start-up biotechnology and biomedically related companies. It features a 10,000-square-foot business incubator with finished lab space divided into 500-square-foot modules for small companies. The six-story facility adjoins the restored facade of the Audubon Ballroom and Theater and the reconstructed portion of the ballroom where Malcolm X was killed in 1965. The ground floor houses retail space that includes restaurants, a bank, a coffee bar, and a bookstore that serves the community and the medical center.

The Berrie Pavilion is the first dedicated research facility constructed on the Health Sciences campus since the mid-1970s. The seven-story building houses the Naomi Berrie Diabetes Center, the Columbia Genome Center, an expanded research program in pediatrics, including a new division of molecular genetics, and other programs including cancer research.

AFFILIATED HOSPITALS

NEW YORK PRESBYTERIAN HOSPITAL

New York Presbyterian is the largest hospital in New York and one of the most comprehensive health care institutions in the world. It was created in 1997 by the merger of two world-class institutions, The Presbyterian Hospital and The New York Hospital. New York Presbyterian Hospital is the primary teaching hospital of the two leading academic affiliates — the Columbia University College of Physicians and Surgeons and the Joan and Sanford I. Weill Medical College of Cornell University.

New York Presbyterian Hospital has two main campuses in

Manhattan—the New York Weill Cornell Center on the East Side and the Columbia-Presbyterian Medical Center in Washington Heights. Because most Columbia learning experiences take place in the Allen Pavilion; at the hospital's community-based practices in Washington Heights, Inwood, and Harlem; or at the Columbia-Presbyterian Medical Center (which opened in 1928, representing the historic alliance of Columbia University and The Presbyterian Hospital), the facilities of those locations are described here:

THE MILSTIEN HOSPITAL BUILDING is the single largest hospital pavilion at Columbia-Presbyterian, with 745 beds. This technologically advanced, adult primary care hospital was opened in 1989.

THE NEW YORK ORTHOPAEDIC HOSPITAL, the orthopaedic surgery service at Columbia-Presbyterian, opened as a dispensary in 1866 largely because of the interest taken in the care of the crippled by Theodore Roosevelt, father of the president of the same name. The first artificial joints for hips, shoulders, and knees were developed there.

SQUIER UROLOGICAL CLINIC is the urology service of Columbia-Presbyterian Medical Center.

SLOANE HOSPITAL FOR WOMEN, the obstetrics and gynecology service at Columbia-Presbyterian, is best known for care of women at risk for difficult pregnancies or complex reproductive endocrinology and infertility problems and for treatment of cancers of the reproductive system. It has one of the nation's most successful in vitro fertilization programs and a nationally recognized center for research in reproduction.

BABIES & CHILDREN'S HOSPITAL, founded in 1887 as Babies Hospital, provides for general medical and surgical care of infants and children up to their late teens and care for premature babies. Its neonatal intensive care unit has been designated a center of excellence by the National Institutes of Health for treatment of respiratory disorders in premature babies. It also excels in treating infants and children with heart defects.

NEUROLOGICAL INSTITUTE, one of the first non-governmental hospitals in the country for the treatment of diseases of the nervous system, was founded in 1909. It is known for research in and treatment of Parkinson's disease, movement disorders, aneurysms, epilepsy, brain tumors, and strokes.

THE EDWARD S. HARKNESS EYE INSTITUTE, site of the ophthalmology service at Columbia-Presbyterian, was founded in 1933. The Eye Institute is a leading center for research in and treatment of all eye disorders including cataracts, tumors of the eye, and glaucoma, and has complete facilities for the medical and surgical treatment of adults and children with diseases of the eye. The Eye Institute has been a pioneer in the clinical use of lasers and ultrasound.

VANDERBILT CLINIC was presented to Columbia University by the Vanderbilt family in 1888 and became part of the hospital in 1928. It comprises numerous outpatient clinics and provides excellent medical and surgical care in every discipline.

ATCHLEY PAVILION contains doctors' and administrative offices, as well as MRI and other ambulatory care services.

THE IRVING CENTER FOR CLINICAL RESEARCH provides resources to clinical investigators to stimulate multidisciplinary, intensive investigation of human disease and clinical pharmacology.

THE ALLEN PAVILION is a 300-bed community hospital located at 220th Street and Broadway. It opened in 1988 and offers a wide range of medical and surgical services to residents of northern Manhattan, Riverdale, and other Bronx communities.

THE AMBULATORY CARE NETWORK CORPORATION (ACNC) is a multisite network of doctors' offices that provide primary care to the Medical Center's surrounding community by Columbia-Presbyterian staff.

COLUMBIA-PRESBYTERIAN/EASTSIDE, conveniently located in midtown Manhattan, offers a comprehensive range of ambulatory care services for adult and pediatric patients. Physicians, surgeons, and dentists provide outpatient specialty and subspecialty care. Special features and programs include state-of-the-art imaging, sports medicine, women's health, sleep disorder diagnosis and treatment, laboratory services, and physical and occupational therapy.

BASSETT HEALTHCARE

Bassett Healthcare is a network of 180 full-time, salaried primary and specialty physicians dedicated to patient care, teaching, and research. They practice at three hospitals and 20 outpatient facilities around the region. At the heart of the network are The Mary Imogene Bassett Hospital, a 180-bed teaching facility in Cooperstown, NY, and the Bassett Clinic, an outpatient primary and specialty care center in Cooperstown. In 1998, Bassett Hospital recorded 8,378 admissions. There also were 243,188 outpatient visits to the Bassett Clinic and 190,338 visits to Bassett's community health centers. The teaching program for house staff and students is a highly personalized one based on a team approach to medical care. The medical library contains more than 30,000 volumes and 540 subscribed journals. Bassett has had a formal affiliation with Columbia since 1947. In 1998, 20 students from Columbia elected programs at Bassett.

HARLEM HOSPITAL CENTER

Harlem Hospital Center, founded in 1887, is a progressive acute general teaching hospital offering primary, secondary, and tertiary care for children and adults living in the Central Harlem area and environs. The main complex consists of seven buildings. Eleven strategically located satellites extend the hospital out into the community. Operating with 312 certified beds and managing more than a quarter million annual patient visits, the hospital functions as the primary health care provider for a catchment area of three and a half square miles. Since 1968, the College of Physicians & Surgeons, through a contractual arrangement with the New York City Health and Hospitals Corporation, has been responsible for all professional medical services in this hospital and nominates its professional staff. This affiliation presents a unique opportunity for teaching students, interns, and residents in the traditional disciplines of medicine and provides increasing opportunities for involvement in community medicine.

HELEN HAYES HOSPITAL

Helen Hayes Hospital in West Haverstraw, NY, is a 155-bed physical rehabilitation specialty hospital offering comprehensive medical rehabilitation and therapeutic services to people with traumatic injuries or chronic diseases, resulting in physical disability. Founded in 1900, the

hospital is operated by the New York State Department of Health and has been associated formally with Columbia University since 1967. In 1988, the association was strengthened with an affiliation agreement between the hospital and CPMC, with CPMC physicians and dentists now providing the hospital's medical services. The medical specialties and allied health professions are organized into disability units that deliver comprehensive care through an integrated team approach, providing unique educational opportunities for residents and allied health students. The goal of each team is to help patients reach their maximum level of independence. Areas of particular excellence in the hospital's specialty services include traumatic brain injury, stroke, spinal cord injury, multiple sclerosis, ventilator management, aquatic therapy, prosthetics and orthotics, rehabilitation medicine, dentistry, and cardiopulmonary rehabilitation. The hospital also operates an innovative Day Hospital program that offers eligible patients intense rehabilitation services on a daily basis without overnight stays. A new subacute rehabilitation unit will open in 2000. The hospital has more than 2,000 admissions and 35,000 outpatient visits a year. The hospital also supports four on-site research centers: Center for Rehabilitation Technology, Neurology Research Center, Clinical Research Center, and Regional Bone Center. The four centers hold more than $11 million in NIH funding, including a SCOR grant in osteoporosis held by the Regional Bone and Clinical Research Centers.

LAWRENCE HOSPITAL

Lawrence Hospital — a P&S affiliate and the fifth New York Presbyterian Health Care network hospital — is a full service, 280-bed community hospital located in southern Westchester County. The hospital accommodates approximately 11,000 admissions and more than 25,000 emergency visits each year. Lawrence Hospital is a member of the HealthStar network, consisting of Northern Westchester Hospital Center, Phelps Memorial Hospital and White Plains Hospital Center.

Lawrence Hospital's continuum of services include cardiology, dermatology, emergency medicine, hematology/oncology, internal medicine (and its subspecialties), neonatology (with Level II nursery equipped to manage multiple births and most high risk pregnancies), neurosurgery, orthopedics, otolaryngology, obstetrics/gynecology, ophthalmology, pediatrics, podiatry, pulmonary medicine, sports medicine and rehabilitation, surgery, and urology.

Additionally, Lawrence Hospital provides extensive ambulatory services which include full radiologic capabilities (an open MRI, CT scan, nuclear medicine, ultrasound, diagnostic radiology and X-ray), ambulatory surgery, laboratory services, outpatient services, rehabilitation and sports medicine and a new cardiac rehabilitation unit. For homebound patients, Lawrence Hospital offers home health care through its certified home health care agency, the Home Nursing Association of Westchester. In addition, hospice and bereavement services are provided through Jansen Memorial Hospice.

Presently, Lawrence Hospital is expanding its emergency room that, upon completion, will offer state-of-the art services. Additionally, the intensive care and cardiac care units at Lawrence were expanded in May 1999.

The affiliation, established in 1994, allows medical students to participate in elective rotations at Lawrence and provides joint continuing education programs and the interchange of patients requiring tertiary and quaternary care. Because Lawrence Hospital and New York Presbyterian Health Care participate in common managed care programs and other health networks, the affiliation creates opportunities for joint administrative systems.

OVERLOOK HOSPITAL

Overlook Hospital in Summit, NJ, is a 490-bed non-profit suburban community hospital. Founded in 1906, it became a teaching affiliate of the Columbia University College of Physicians and Surgeons in 1975. Overlook trains approximately 100 residents a year. It is a primary and specialized acute care institution accommodating 19,652 inpatient and 280,458 outpatient visits each year. Overlook offers particularly strong training in pediatrics, family practice, radiology, internal medicine, and dentistry. There is also a visiting rotation from Columbia in surgery and a mixed resident rotation from other academic programs in obstetrics and gynecology. There are also on-site primary care clinics and subspecialty clinics in each of the major primary care specialties. The hospital's Center for Community Health provides outpatient services including pre-admission testing, ambulatory surgery, and radiology and a consumer health library. In 1996, Overlook Hospital merged with Morristown Memorial Hospital and Mountainside Hospital in Montclair/Glen Ridge to form Atlantic Health System. The General Hospital Center at Passaic joined Atlantic in 1997. Overlook Hospital maintains an open staff policy in regard to the medical staff.

ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

St. Luke's-Roosevelt Hospital Center is a 1,315 bed, tertiary care, private hospital serving the West Side of Manhattan, from midtown to Morningside Heights. The Hospital Center was formed in 1979 with the merger of St. Luke's Hospital Center and The Roosevelt Hospital. Today, St. Luke's-Roosevelt is a proud member of Continuum Health Partner, Inc., whose other hospital members include Beth Israel Medical Center, The Long Island College Hospital in Brooklyn, and The New York Eye and Ear Infirmary. The St. Luke's Division and the Roosevelt Division both maintain emergency rooms and have been full university affiliated hospitals with the College of Physicians and Surgeons for close to a quarter of a century.

The St. Luke's-Roosevelt Hospital Center medical staff numbers approximately 1,250, and the house staff consists of more than 400 residents and fellows. The hospital has more than 120 primary and specialty care clinics and other outpatient programs totaling more than 325,000 visits annually.

St. Luke's-Roosevelt is recognized as a leader in such fields as cardiology and cardiac surgery, hand surgery, diabetes and weight management, kidney transplantation, pulmonary disease, and performing arts and sports medicine. The hospital's clinical-oriented research projects are involved in such areas as blood diseases, coronary artery disease, autoimmune disease, aneurysm disease, HIV, and obesity and nutrition.

ST. VINCENT HOSPITAL

St. Vincent's Medical Center in Bridgeport, Conn., is a 391-bed, tertiary-level hospital serving Fairfield and New Haven Counties. It specializes in cardiovascular, oncology, women's and family, behavioral health, and senior services, and has a medical staff of 450 physicians. Affiliated with New York Presbyterian Health Care and the Columbia University College of Physicians & Surgeons, St. Vincent's Medical Center is operated by St. Vincent's Health Services, an integrated health delivery network comprising 38 services and facilities. These include St. Vincent's College (two-year health sciences college awarding associate degrees), St. Vincent's Special Needs Services (for developmentally delayed children and adults), Hall-Brooke Hospital (psychiatric and behavioral health), and SVNS Care Link (home care). St. Vincent's Medical Center has held accreditation with commendation from the Joint Commission on Accreditation of Healthcare Organizations since 1993, and this year

was named one of the "top 100" cardiac centers for angioplasty in the United States by HCIA Inc. St. Vincent's is sponsored by the Daughters of Charity National Health System.

STAMFORD HEALTH SYSTEM

Stamford Health System represents a healthcare delivery system that offers the community seamless, quality care in all stages of its citizens lives. The Stamford Hospital, a not-for-profit, 305-bed facility, provides a wide range of high-quality acute care, as well as emergency and outpatient services to medical/surgical, obstetric, pediatric and psychiatric patients. The hospital also serves as a teaching facility with five medical residency programs and is designated as a Level II Trauma Center. Maternity Services include a Level II Neonatal Intensive Care unit, perinatology services including in-utero procedures and advanced fetal monitoring, and reproductive endocrinology and fertility programs. Stamford Health System also includes the Carl & Dorothy Bennett Cancer Center, Stamford Health Center, Diagnostic Imaging Center, The Rehabilitation Center, William & Sally Tandet Center for Continuing Care, Edgehill Continuing Care Retirement Community, Stamford Surgical Center, Visiting Nurse and Hospice Care Inc., and Stamford Corporate Health Services.

WHITE PLAINS HOSPITAL CENTER

An affiliation established in 1993 with White Plains Hospital Center in White Plains, NY, represented Columbia Presbyterian's efforts to expand academic, research, and patient care linkages throughout the New York metropolitan area. White Plains Hospital Center is a community hospital that offers a wide range of modern health care programs to residents of Westchester County. The affiliation includes the development of cooperative programs in several clinical areas, such as neonatal services and interventional cardiology.

NEW YORK STATE PSYCHIATRIC INSTITUTE

The institute is the oldest psychiatric research institute in the United States. It was built and is maintained by the New York State Office of Mental Health. Through a contractual arrangement, it is affiliated with the College of Physicians and Surgeons. The Institute's functions are to do research into the causes and treatment of psychiatric illness, to provide education for mental health professionals, and to provide the highest quality of clinical care for patients with psychiatric disorders. The Institute currently maintains 30 major research and clinical departments, a research hospital, and a wide variety of specialized outpatient departments that provide diagnostic and treatment programs.

ADMISSION, REGISTRATION, EXPENSES, AND FINANCIAL AID

Entering classes are enrolled in the College in August of each year. The minimum requirement for admission is attendance for three academic years at an approved college of arts and sciences. Most applicants present four academic years and a bachelor's degree, although these are not required. The composition of our entering classes indicates, however, that only a relatively small number of three-year students have been accepted in the past by our Committee on Admissions.

The college program must have included English, physics, biology, organic chemistry (including at least one semester of laboratory), and some other course in chemistry covering at least one academic year. Students applying for admission must also have taken the Medical College Admission Test within four years of the date of their application. The latest time the MCAT can be taken is the autumn of the year preceding anticipated enrollment. The student may have concentrated in any area—in the natural sciences, social sciences, humanities, or arts—but evidence of a balanced education, as well as demonstrated interest and ability in the natural sciences, is preferred.

APPLICATION PROCEDURE

Application for admission must be filed on a special form obtained from the Admissions Office of the Faculty of Medicine. Applications should be submitted as promptly as possible, though they are accepted only for the next incoming class. Application forms are available beginning in June of the year preceding admission, and they must be filed by October 15. The completed form must be accompanied by the application fee of $75. The fee helps to cover the cost of processing the application; it is therefore not refundable and is not credited toward tuition.

Applicants will be notified when their applications have been received. The Committee on Admissions, however, evaluates only completed applications, that is, those for which letters of recommendation have been received, along with MCAT scores and transcripts. Applicants will be notified, also, when their applications have been completed; if such notification is not received within sixty days after the date of the preliminary processing of an application, applicants should make inquiries at the Admissions Office to learn which items have not yet been received. Failure to receive letters of recommendation and transcripts is the most common cause of delay in the completion of applications.

If a personal interview is required in connection with the application, it will be requested only by the Admissions Office.

SELECTION OF STUDENTS

The Committee on Admissions devotes months to the task of selecting a class of 150 from a very large number of applicants. Obviously there will be many well-qualified students whom the College will not be able to accept. The Faculty of Medicine recognizes its obligations in the field of medical education and research not only to the local area but to the nation as well. Admission will not be offered to any applicant who has not been interviewed by one of the College's representatives. Impressions from such an interview, as well as scores on the MCAT and academic records, will be considered in selecting individuals for admission. Other selection criteria are listed below.

The Committee places great importance on the fact that the students have learned to think for themselves, to explore, to work hard under their own initiative, to consider alternatives and make decisions, and develop a desire for a continuous program of self-education. In the selection of students, preference is given to those who, in the opinion of the Committee on Admissions, have shown high achievement in their college education, a mature sense of values, sound motivation, qualities of leadership, and ability to assume responsibility, and to those who have already given evidence that they are qualified to complete all requirements of our curriculum and to graduate as ethical, compassionate, and competent physicians.

The practice of medicine is both a science and an art, and to treat the patient as a whole person, the doctor must be a whole person. Students planning a career in medicine should be motivated toward becoming leaders in medical thinking, rather than technicians, because medical practice is both a private enterprise and a public responsibility. The liberal arts college offers the opportunity to prepare for a happier and more useful life of citizenship. Years of specialization lie ahead in a professional career, but the foundation of all advanced study is a broad liberal education, of which science is a part.

All applicants to P&S are evaluated and judged on an individual basis and a determination made as to whether the applicant has the essential functional abilities necessary to safely, effectively, and independently perform all of the requirements of the program. When appropriate, the school makes reasonable accommodations for the otherwise qualified handicapped students.

ADMISSION TO ADVANCED STANDING

Application for advanced standing is possible for students wishing to transfer into the second- or third-year classes. Transfer into the fourth year is not possible. Students from foreign schools wishing to transfer must apply to the second-, not the third-year class. The only applicants who can be considered for transfer into second- or the third-year classes are those who are currently enrolled in an accredited medical school, or else have been so enrolled within one year preceding the time they make application. The number of places available for transfer into both the second- and third-year classes is extremely limited, usually between two and four places for each class; in some years there have been no places available. The deadline for receipt of application for both classes is April 15.

ADMISSION OF FOREIGN STUDENTS

Applicants need not be citizens of this country, but preferably should have received their premedical education at an accredited college or university in the United States or Canada. Applications may be submitted by individuals who have been educated elsewhere, but they must have completed at least one full year of premedical training at a university in the United States. They must also have taken the MCAT no later than one year prior to enrollment. This same requirement regarding premedical education also pertains to foreign medical students who are applying for a transfer from a foreign medical school into our second term.

REGISTRATION

Before attending classes, incoming students must register with the Student Administrative Services office during the registration period listed in the Academic Calendar. Incoming students are notified of the date, time, and place through information provided in the admissions packet. Thereafter, registrations are brought forward unless a student has a regis-

tration hold, which may be placed by the dean or placed if a student has an outstanding account balance. Information concerning registration, holds, and student account status is available in the Student Administrative Services office, located in room 141 of the Black Building, as well as on the World Wide Web: http://www.columbia.edu/cu/students/. Daily office hours are 9 a.m. to 4:30 p.m. Special hours are posted.

All students are asked to give Social Security numbers when registering in the University. Students who do not have Social Security numbers should obtain them from their local Social Security office well in advance of registration. Foreign students should consult the International Students and Scholars Office, 524 Riverside Drive, Suite 200 (mailing address: International Students and Scholars Office, Columbia University, Mail Code 5724, New York, NY 10027); for futher information.

Students who are not citizens of the United States and who need authorization for special billing of tuition and/or fees to foreign institutions, agencies, or sponsors should go to the Foreign Student Advisor with two copies of the sponsorship letter. Special billing authorization is required of students whose bills are to be sent to a third party for payment.

Columbia University policy mandates that all students in the Health Sciences must prove immunity to measles (rubeola), mumps, and rubella (MMR) in order to register for classes. The only acceptable proof is a copy of the laboratory results of titers (blood tests) that clearly document immunity to these diseases. Proof must be sent to Columbia University Student Health Service-MMR, 60 Haven Avenue, New York, NY 10032.

OTHER COURSES

Degree candidates in good standing who are enrolled for a full-time program in the current term may register for one or two courses (except during the summer term) in any division of the University without charge by filing a formal change-of-program application approved by the Associate Dean for Student Affairs. These forms are then filed in the Office of Student Administrative Services (Black Building, Room 141). Consult the Office of Student Administrative Services for fall and spring change-of-program dates.

FEES

The following fees, prescribed by statue, are in effect for 1999-2000 and are subject to change at the discretion of the Trustees.

University charges such as tuition and fees and residence halls and board plans are due and payable in full by the date announced before the beginning of each term. The full amount of any charge may be paid when due without penalty, or payment may be made in installments. If partial payments are made, a FINANCE CHARGE is assessed on amounts not paid by the due date on the initial bill received prior to registration and thereafter as indicated on subsequent monthly bills. All charges must be paid by the end of the term.

It is the policy of the University to withhold diplomas, certificates, and transcripts until all financial obligations have been met. Candidates for graduation are urged to pay their bills in full at least one month prior to graduation.

TUITION AND FEES

Projected tuition for the full course in medicine for one academic year (or the equivalent), payable in two installments	$29,548
Disability insurance	$40
Microscope/slide fee	$150

HEALTH SERVICE AND HOSPITALIZATION INSURANCE FEES

The following fees, prescribed by statue, are subject to change at the discretion of the Trustees. For all full time students, annual rates for individuals as of 1999 2000:

Student Health Service fee	$920
Hospital insurance premium	$437
(Two-person and family rates also are available)	

The student health service fee contributes to the cost of operating the Student Health Service. The hospital insurance fee pays the annual premium for Empire Blue Cross hospitalization coverage. All full-time students must enroll in the Student Health Service and have hospitalization coverage. Students with comparable insurance coverage may waive the hospitalization insurance premium fee only, but proof of comparable coverage must be shown at the time of registration. Although fees for the Student Health Service are assessed automatically, new and returning students must complete enrollment paperwork annually. Waivers for hospital insurance fee assessment also must be requested annually.

New Students must provide proof of immunity to measles, mumps, and rubella or submit to immunization on or before registering for classes.

APPLICATION FEES

For admission	$65

LATE REGISTRATION FEES

	Full-Time
During late registration	$50
After late registration	$100

WITHDRAWAL AND ADJUSTMENT OF FEES

With the passage of the Higher Education Amendments of 1992 (Public Law 102-325), the University is required to implement a pro data refund policy for students who do not register or who withdraw or otherwise fail to complete an enrollment period. Refunds are a percentage of charges (including tuition, dining, and housing) assessed the student based on the date of the student's last day of attendance (separation) as reported by the dean of the student's school.

All students will be charged a withdrawal fee of $75.

A refund calculation will be based on the last day of attendance; however, a student may be charged for services (e.g., housing, dinning) utilized after the last day of attendance. These charges should not be paid with Title IV funds.

Certain fees are not refundable: Fees for service used prior to withdrawal, for materials and equipment purchased, for services that continue to be available after withdrawal, and fees paid to outside entities generally will not be refunded. Fees not subject to refund: health service, medical insurance/Blue Cross, catastrophic insurance, course-related fees (lab etc.), dental kit, microscope, case books, disability insurance, malpractice insurance, materials fee, orientation fee, international services charge, late registration fee, late payment fee, finance charges, computer fee, withdrawal fee.

Students will not be entitled to any portion of a refund until all Title IV programs are credited and all outstanding charges have been paid.

Refunds will be credited in the following order: Unsubsidized Federal Stafford Loan, Subsidized Federal Stafford Loan, Federal Perkins Loan, other federal sources (such as Title VII funds), State, Private or Institutional Aid, Student.

The refund percentage is as follows (prorated for calendars of different durations):

1st week	100% refund
2nd week	90%
3rd week	80%
4th week	80%
5th week	70%
6th week	60%
7th week	60%
8th week	50%
9th week	40%
After the 9th week	——

APPLICATION OR RENEWAL OF APPLICATION FOR DEGREE

Degrees are awarded four times a year—in October, February, May and June. A candidate for any Columbia degree (except the Ph.D. degree) must file an application with the Office of Student Administrative Services, 630 West 168th Street. The last day to file for an October degree is August 1; for a February degree, October 1; and for a May or June degree, December 1. (When the application date occurs on a Saturday or Sunday, the deadline becomes the next business day.) Fourth-year students usually apply during their last registration.

If the student fails to earn the degree by the end of the conferral date for which he or she has made application, the student may renew the application for the following conferred date.

REQUEST FOR TRANSCRIPTS

The Family Educational Rights and Privacy Act of 1974 as amended prohibits the release of educational records by institutions without the specific written consent of the student or alumnus. Students or alumni may request copies of their records by writing to the Office of Student Administrative Services, Columbia University, 141 Black Building, 630 West 168th Street, New York, NY 10032.

Incoming students are assessed a one-time fee of $45. Thereafter, no fee is charged for ordering transcripts. Registered students may order transcripts via the World Wide Web: http://www.columbia.edu/cu/students/.

ESTIMATED EXPENSES

Projected educational expenses for a student attending the College during the *first academic year* are as follows:

Tuition	$29,548
Health and hospitalization insurance	1,440
Disability insurance	40
Microscope/slide fee	150
Uniforms	90
Equipment	535
Computer Access Fee	48
Books and Supplies	1,310
Transportation to clinical courses	100

In addition to the educational costs listed above, each first-year student should budget approximately $11,442 for living expenses ($5,218 for housing, $4,213 for food, $634 for clothing and laundry costs, and $1,377 for miscellaneous expenses).

There are differences in the length of each academic year, and living and miscellaneous expenses vary. Each year the College Committee on Financial Aid prepares a statement of estimated expenses for students in each year of the medical school curriculum. These statements are given to all financial aid applicants at the time of distribution of the financial aid policy statement.

MICROSCOPE, INSTRUMENTS, AND BOOKS

Students are required to have microscopes for courses in the first and second years of medical school. Microscope rental is provided by the college; the $150 annual fee is billed directly to student accounts.

Students are required to purchase dissection equipment for the first-year course in gross anatomy and instruments for the diagnostic examination of patients.

The books required or recommended for courses of instruction are announced at the beginning of each academic year.

HOUSING

The Health Sciences Housing Office serves as the central assignment office for all University-owned housing on the Health Sciences campus. Bard Hall and Georgian Residence are in the University Residence Halls division of the office. The Institutional Real Estate division covers Bard-Haven Towers (Towers 1, 2, and 3) and buildings at 106 and 154 Haven Avenue. The Housing Office manages the day-to-day operations for the residence halls, University guest accommodations, recreational/athletic facilities, and conference room scheduling for Bard Hall. The Health Sciences Office is located in Bard Hall, 50 Haven Avenue, New York, NY 10032, phone (212) 305-6853, fax (212) 305-4080.

ON-CAMPUS HOUSING

Many first-year medical students choose to live on campus. All first-year single medical students are guaranteed a housing assignment in Bard Hall. Located at 50 Haven Avenue and overlooking the Hudson River and the George Washington Bridge, Bard Hall is an 11-story facility that houses 300 students in single rooms. Each room is approximately 10' x 13'. Many of the rooms are equipped with sinks. A community shower and bathroom is located on each floor. Assignments to Bard Hall are based on the date of receipt of application, accommodation availability, and, whenever possible, students' preferences for type of accommodation.

Housing for couples at the Health Sciences Campus is available to both married couples and couples living in domestic partnerships. Because of the limited availability of such housing on the Health Sciences Campus, the status of any couple applying for this housing will be verified. A married couple will be asked to submit a copy of the marriage license and domestic partners will be asked to supply proof of their status. This housing is assigned on the basis of distance of current residence from campus and date of receipt of application. Assignments are made according to accommodation availability and, whenever possible preferences for accommodation. Housing is allocated on a nondiscriminatory basis.

One bedroom apartments for couples are available at 60, 100, and 154 Haven Avenue. Couples with children are eligible to apply for two-bedroom apartments at 100 and 106 Haven Avenue.

GUEST ACCOMMODATIONS

The Housing Office provides guests accommodations for affiliates of the University and visitors to the campus. The guest rooms located in Bard Hall include eight Ivy League single or double suites and the Samuel Bard Suite, a fully furnished guest apartment with living room, bedroom, bath, and fully equipped kitchen. Reservations can be made for overnight or extended stays by contacting the Housing Office during business hours.

RECREATIONAL/ATHLETIC FACILITIES

Bard Hall Commons is the center for activities on the Health Sciences Campus. The Commons includes offices, the main lounge, the solarium/game room, the Recovery Room Lounge, and a photo lab on the main level of Bard Hall, the dining room and weight room on the 1B level and the Bard Athletic Center on the 3B level. The Bard Athletic Center is designed to meet the fitness needs of today. The facility encompasses a 20-yard swimming pool, three squash courts, a gymnasium, an aerobics room, Nautilus and Universal exercise equipment, dumbbell sets and benches, stationary bicycles, rowing machines, treadmills, lockers, showers, and saunas. The facility is handicapped-accessible. There is no membership fee for Health Sciences students. Student spouse/domestic partner memberships and guest passes are available. The center offers an extensive aerobics program. Information regarding all center services and fees are available through the Housing Office or the Bard Operations Desk at (212) 305-6853.

OFF-CAMPUS HOUSING

Students who seek off-campus housing may utilize the Off-Campus Housing Registry maintained in the Housing Office.

DISABILITY-RELATED SERVICES

Students with permanent or temporary disabilities who wish to request special arrangements are urged to notify the School's liaison officer for disability-related services as early as possible: Dr. Linda Lewis, P&S 3-401; (212) 305-3806. Services to students with permanent and temporary disabilities are coordinated through the Office of Disabled Student Services. Students are encouraged to call or stop by the Office to discuss any academic accommodations they may need or other related concerns they may have. The Office is located in 305 Low Library. Phone: 854-2388, TDD: 854-2388.

FINANCIAL AID

The Office of Student Financial Planning provides information on financial aid opportunities at P&S. Offers of admission are accompanied by a complete application packet and a financial aid handbook which details financial aid programs as well as policies and procedures. Updated application packets and handbooks are distributed each year at the end of January.

Federal student loans and private student loan programs are available to cover educational expenses that cannot be met with family resources. P&S also annually awards more than five million dollars in need-based grants and low cost loans. Applicants for need-based funds must provide financial data for themselves and their parents in order to be considered. Need is established by completing the Free Application for Federal Student Aid (FAFSA) and our internal student and parental questionnaires.

All financial aid awards are based on demonstrated need. Each applicant for financial aid is required to borrow a sum of money (unit loan) before becoming eligible for scholarships administered by the College. Financial aid awards are meant to supplement, rather than substitute for, student and parental resources.

Spouses of medical students should consult the personnel offices of the College of Physicians and Surgeons and of the New York Presbyterian Hospital for information regarding employment at the Medical Center.

Visit our web site at http://cpmcnet.columbia.edu/student/finaid/ for detailed information, Q&A's on the financial aid process, and many useful links.

SCHOLARSHIPS

Students are urged to determine the availability of scholarship assistance from the states in which they reside and to make application for such funds when appropriate. As an example, New York State provides funds through the Tuition Assistance Program to residents who meet financial qualifications. In addition, New York State offers the New York Regents Health Care Scholarships for Medicine and Dentistry. Awards are up to $10,000 per year. Applicants must be legal residents of New York State for one year prior to applying and be enrolled in a medical school or be candidates for admission to a medical school. Applicants must agree to practice medicine in an area of New York State designated as a shortage area. Awards will be made to eligible candidates in the following order of priority: (1) Candidate is economically disadvantaged and a minority group member historically underrepresented in the profession, (2) Candidate is a minority group member underrepresented in the profession, and, (3) Candidate completed undergraduate work through assistance from the HEOP, EOP, or SEEK opportunity programs. Applications and instructions may be obtained from:

New York State Education Department
Higher Education Opportunity
Programs/VATEA/Scholarships
Room 1071 EBA
Albany, NY 12214
(518) 486-1319

Applications are usually due between the January and May prior to matriculation. Students should be advised that these deadlines are strictly adhered to.

Among nongovernmental sources of funding is the National Medical Fellowships, Inc., which awards fellowships to needy black Americans, American Indians, Mexican-Americans, and mainland Puerto Ricans. Applicants must be citizens of the United States. Awards are given to first- and second-year medical students. Enrolled medical students should apply to NMF at 254 West 31st Street, New York, NY 10001 before March 1 for financial assistance for the second year of medical school. Applicants to medical school should request information from NMF.

There are a number of scholarship funds administered by the College. The named scholarships listed below have been donated by alumni, foundations, corporations, and friends of the University and are awarded to qualified students by the Office of Student Financial Planning. All students applying for school-based funds will automatically be considered for these special scholarships by providing all required financial information.

INTERNATIONAL STUDENTS WHO DO NOT HOLD A PERMANENT RESIDENT VISA

A significant portion of the financial aid packages comes from federally or state-sponsored programs, which require that the recipient/borrower be either a U.S. citizen or a permanent resident. A student in the United States with an F1 or F2 student visa or with a J1 or J2 exchange visitor visa cannot receive student aid from federally or state-sponsored sources but may qualify for and receive need-based school loans, "alternative loans" from outside sources, and grants from funds that are not federally or state-sponsored or with a G-series or H-series visa.

Despite eligibility for school funds, close to half of the cost of four years of medical school must be borne by the student in these categories and by his or her family or external sources such as government, foundation, or private support. Therefore, to assure the College of the student's ability to pay, the student must, no later than two weeks prior to the first day of class each year, present proof to the Office of Student

Financial Planning that the full cost for that year (as determined by the Financial Aid Officer) has been deposited in an account in the student's name at a bank in New York City. Adjustments to this amount will be made only if, after having completed the financial aid application materials in a timely manner, an "alternative loan" has been approved by the lender or a CU loan and/or P&S grant is awarded. In that case, the amount of the required deposit for the year may be reduced by the amount of aid awarded.

TAX WITHHOLDING FOR NONRESIDENT ALIEN SCHOLARSHIP AND FELLOWSHIP RECIPIENTS

United States tax law requires the University to withhold tax at the rate of 14 percent on scholarship and fellowship grants paid to nonresident aliens that exceed the cost of tuition, books, fees, and related classroom expenses.

Certain countries have entered into tax treaties with the United States that may serve to reduce this rate of withholding. However, even when such a treaty applies, the student and the University must report the full amount of such excess to the Internal Revenue Service. If a student claims tax treaty benefits, he or she must also report this amount to his or her country of residence.

The International Students and Scholars Office (524 Riverside Drive, Suite 200; mailing address: International Students and Scholars Office, Columbia University, Mail Code 5724, New York, NY 10027; telephone 212-854-3587) has prepared a packet of tax information that is available to students and is revised annually. Because the University is not in a position to offer individual tax advice, each student may also wish to consult the consulate of his or her country of residence or a qualified tax professional.

ENDOWED SCHOLARSHIP FUNDS

ALLEN Gift of Mrs. Vivian B. Allen.

ANONYMOUS Several; awarded annually.

CHARLES BACON '87 SCHOLARSHIP Given by the family and friends of Charles Bacon'87 in his memory.

BANBURY From the Banbury Scholarship Fund.

ALICE IDA BERNHEIM '31 AND ABRAHAM PENNER '31 SCHOLARSHIP FUND For tuition.

ISAAC J. AND RENA HENLY BERNHEIM Given by the family in honor of Isaac J. and Rena Henly Bernheim.

ELSIE J. BIRTWHISTLE Founded by the will of Morell Birtwhistle, in memory of his wife.

E.M. BLUESTONE '19 SCHOLARSHIP FUND

GEORGE BLUMENTHAL, JR. From the George Blumenthal, Jr. Fund.

ALICE BOHMFALK CHARITABLE TRUST FUND FOR SCHOLARSHIPS Established by John Bohmfalk in memory of Charles Bohmfalk, P&S 1883.

JOHN FREDERICK BOHMFALK SCHOLARSHIP Merit scholarships established as a bequest by the late John Frederick Bohmfalk in memory of Charles Bohmfalk, P&S 1883.

ELIZABETH ROCK BRACKETT '29 SCHOLARSHIP FUND Bequest of Dr. Brackett, the income to be used for scholarship assistance for women medical students studying under the Faculty of Medicine.

MARTHA HAMILTON BRENNER SCHOLARSHIP FUND Established by E.C. Brenner '08.

HARRY BRITENSTOOL '01 SCHOLARSHIP FUND

GLADYS BROOKS SCHOLARSHIP FUND

DANIEL NOYES BROWN SCHOLARSHIP FUND Established in memory of Daniel Noyes Brown, P&S '32, for graduating seniors going into primary care medicine.

LUCIEN AND ETHEL BROWNSTONE MERIT MEDICAL SCHOLARSHIP FUND A merit scholarship awarded every four years.

DR. MOSES R. BUCHANAN MEMORIAL Open to undergraduate medical students, with preference given to those who are residents of Westchester and who plan to practice pediatrics. Established by friends of Dr. Buchanan.

DAVID C. BULL MEMORIAL In memory of Dr. David C. Bull, a former member of the Department of Surgery.

DR. H. GRIFFIN BULLWINKEL '20 AND MRS. LOLA LENHART BULLWINKEL FUND Given by Mrs. Bullwinkel in memory of her husband, Columbia College Class of 1917, P&S Class of 1920.

RICHARD BUTLER Open to men born in the state of Ohio who are qualified for admission to, and plan to enter, Columbia College, the Graduate School of Arts and Sciences, the School of Law, the School of Engineering and Applied Science, or the College of Physicians and Surgeons.

MILDRED O. CADIGAN FUND

LISLE C. CARTER SCHOLARSHIP FUND Established through the generosity of the Emilie H. Siebert Trust, for disadvantaged minority students.

TIMOTHY C. L. LIANG AND ESTHER CHANG SCHOLARSHIP

SAMUEL L. CHASE '32 SCHOLARSHIP

CHEEK (DR. JOANNE LLOYD-JONES) SCHOLARSHIP FUND Gift of Mrs. Arthur Rudd. Established in 1987.

ALONZO CLARK 1835 Founded by the will of Alonzo Clark, M.D., LL.D., for many years president of the College of Physicians and Surgeons.

CLASS OF 1890 Given by a member of the class.

CLASS OF 1899 Given by the class in commemoration of the 35th anniversary of its graduation.

CLASS OF 1912 Given by the class on the 15th anniversary of its graduation.

CLASS OF 1913 For medical student scholarships.

CLASS OF 1920 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1924 To commemorate the 50th anniversary of its graduation.

CLASS OF 1928 Given at its 10th reunion.

CLASS OF 1932 For a scholarship room. Given by the class on the 25th anniversary of its graduation.

CLASS OF 1933 For a scholarship.

CLASS OF 1934 Awarded for medical student scholarships.

CLASS OF 1936 Given by the class on the 25th anniversary of its graduation.

CLASS OF 1937 Awarded for tuition of medical students.

CLASS OF 1938 Awarded annually to assist a student in the College of Physicians and Surgeons.

CLASS OF 1939 Awarded for medical student scholarships.

CLASS OF 1940 Awarded for medical student scholarships.

CLASS OF 1942 Awarded for medical student scholarships.

CLASS OF 1946 Given by members of the class.

CLASS OF 1952 Given by members of the class on the 10th anniversary of its graduation.

CLASS OF 1953 Given by members of the class.

CLASS OF 1954 Given by members of the class.

CLASS OF 1958 Given by members of the class.

CLASS OF 1959 Given by members of the class.

CLASS OF 1964 Established in memory of Dr. Howard Gerstel.

CLASS OF 1965 Given by members of the class.

HENRY D. CRUGER Request of Helen Cruger, in memory of the Henry D. Cruger family.

CHARLES A. DANA FOUNDATION, INC. Established by the foundation.

ANTHONY M. DESHON '34 SCHOLARSHIP FUND Open to a student of the fourth-year class. Given by Dr. Anthony M. DeAngelis.

HORACE DENNETT Open to students in the third- and fourth-year classes.

DR. HERBERT JACKSON DESHON '30 SCHOLARSHIP FUND Established by bequest of Dr. DeShon, P&S '30.

DAVID M. DEVENDORF 1861 Preference is given to a candidate from Herkimer County, New York, preferably one from the town of Herkimer. Given by Mrs. David M. Devendorf of Herkimer, New York, in memory of her husband, Dr. David M. Devendorf, Class of 1861.

MORRIS DINNERSTEIN '18 SCHOLARSHIP FUND

FRANCIS E. DOUGHTY 1869 Given by Miss Phoebe Caroline Swords, in memory of Dr. Francis E. Doughty, Class of 1869.

LAWRENCE JOHN DURANTE '61 Given by members of the Class of 1961, in memory of Lawrence John Durante. Awarded annually to a senior student with verified financial need by the Durante Scholarship Fund Committee after review of the applications of qualified students.

EDWARD PERCY EGLEE '13 Bequest of Edward Percy Eglee, Class of 1913, member of the Faculty of the College of Physicians and Surgeons from 1919 until his retirement in 1953, when he was a clinical professor of medicine.

JOSEPH HERMAN AND HANNAH EICHNER Established by the will of Benjamin Bernard Eichner, Class of 1919.

JOSEPH C. FOSTER Given by Mrs. Esther J. Foster, in memory of her husband.

VIRGINIA KNEELAND FRANTZ '22 Bequest of Dr. Frantz.

NELLIE ALDEN FRANZ Bequest of Nellie A. Franz to Columbia University for scholarships to worthy young women for undergraduate or graduate study, with preference for those interested in medicine, nursing, sociology, and journalism.

JOSEPH H. FRIES '29 MEMORIAL SCHOLARSHIP

DAVID GABERMAN '20 SCHOLARSHIP FUND

ARTHUR AND CORNELIA GANS SCHOLARSHIP FUND BEQUEST of Cornelia Gans to the College of Physicians and Surgeons to provide scholarships for needy and worthy students of American or Dutch nationality.

GEORGE AND CHARLIE Given by the Alumni Association of the College, in memory of George Peters and Charles Costello, longtime employees of the Medical Center.

JOSEPH V. AND ANDREW GIFFUNI FUND Endowed by Andrew Giffuni in honor of Dr. Charles E. Hamilton, '18.

RODMAN GILDER '44 SCHOLARSHIP

NORMAN GOETZ '06 SCHOLARSHIP FUND

DEWITT M. GOODMAN MEMORIAL SCHOLARSHIP

ROBERT I. GRAUSMAN '21 SCHOLARSHIP FUND Established by Grausman, P&S '21, and continued in his memory by family and friends.

R.G. HADDAD FOUNDATION SCHOLARSHIP For medical students who are U.S. citizens of Syrian or Lebanese descent.

JACOB HARSEN P&S 1825 SCHOLARSHIP FUND Given by Dr. Jacob Harsen.

FRANK HARTLEY 1880 SCHOLARSHIP FUND Given by friends and colleagues of Dr. Frank Hartley, class of 1880.

HELEN HAYES Established by the College of Physicians and Surgeons to honor Miss Hayes for her four decades of service and devotion to Helen Hayes Hospital, a New York State-owned Columbia affiliate.

MARGARET HAYNES MINORITY SCHOLARSHIP

HAROLD HELM Established by the College to honor Mr. Helm, for his statesmanship and leadership as a chairman of the Medi/Center I campaign and for all his efforts on behalf of the University.

WILLIAM H. HEMINGWAY

JEAN HENDERSON '21 MEMORIAL SCHOLARSHIP FUND

MARGARET AND E. FREEMAN HERSEY '48 SCHOLARSHIP FUND

AARON HIMMELSTEIN MEMORIAL Open to all undergraduate medical students. Given by Dr. Himmelstein's friends and colleagues.

IRMA T. HIRSCHL SCHOLARSHIPS From the estate of Irma T. Hirschl. Awarded on the criteria of financial need, outstanding scholarship and dedication to medical science, and easing of pain and protection of life.

MADAME LEIN-SUN HO SCHOLARSHIP FUND Established by Dr. Karen K. Fu, P&S '67, in memory of her mother.

THE MILDRED HOFFBERG SCHOLARSHIP FUND Established in honor of Charles Flood '28 and his wife.

ESTHER HO-KUNG '76 SCHOLARSHIP For Asian-American female students.

THOMAS R. '54 AND ENEIDA G. HOLLAND SCHOLARSHIP FUND Endowed by Thomas and Eneida Holland.

RODERICK HOUTS SCHOLARSHIP

CHARLES EUGENE HUBER, SR. 1896 SCHOLARSHIP FUND Bequest of Francis D. Huber, Class of 1928, in memory of his father.

FRANCIS HUBER '28 SCHOLARSHIP Open to a graduate of any institution other than Columbia University, City College, Barnard College, or Hunter College. Given by Dr. Francis Huber, Class of 1928.

VIOLA B. HUBER Open to a graduate of Hunter College. Given by Dr. Francis Huber.

ABRAHAM JACOBI For graduates of Columbia University and City College. Given by Dr. Francis Huber, in memory of Dr. Abraham Jacobi.

JACOBY PRESIDENTIAL SCHOLARSHIP

EDWARD R. JEAL Awarded to deserving students under the Faculty of Medicine.

D. REES JENSEN '25 SCHOLARSHIP FUND

RUTH ANN JORDAN '57 SCHOLARSHIP

VERA JOSEPH '36 AND JEROME S. PETERSON '31 MINORITY STUDENT SCHOLARSHIP FUND

CHARLES CHRISTIAN LIEB '06 Awarded to a student interested in the study of pharmacology. Given in memory of Dr. Charles Christian Lieb, Hosack Professor of Pharmacology.

LI MING Awarded with preference to students of Chinese birth or descent or nationality. Established by bequest of Mr. Li Ming.

BARBARA LISKIN '79 EDUCATION FUND

ROGER MACKINNON '50 PSYCHOANALYTIC SCHOLARSHIP FUND

MALCOLM X SCHOLARSHIP FUND Established by the College of Physicians and Surgeons to help further the education of black students interested in medical and public health problems prevalent in black communities.

MALLORY P&S SCHOLARSHIP FUND Established by Mrs. Louis Mallory in honor of Richard Stock '47.

HERBERT D. MANLEY '07 Given as bequest by the late Dr. Herbert D. Manley.

FRANCIS HARTMAN MARKOE P&S 1883 SCHOLARSHIP Given by Madeline Shelton Markoe, in memory of her husband.

MARJORIE MCANENY Open to a graduate of Barnard College. Given by Dr. Francis Huber, Class of 1928.

SHEILA AND STEPHEN M. MCCOY '37 SCHOLARSHIP FUND Endowed by Stephen J. And Sheila McCoy.

ELIZABETH HALL MCCULLOGH '33 Given by Mrs. William G. Heaphy, in memory of her sister, Dr. Elizabeth McCullogh, an alumna of the College of Physicians and Surgeons, Class of 1933.

ARTHUR B. MCGRAW '19 SCHOLARSHIP FUND IN CPMC FUND INC.

MABEL C. MEAD Awarded to women students of Chinese ancestry. Preference given to those desiring to study medicine.

MICHELSEN SCHOLARSHIP FUND Established by Jost Michelsen '63.

VIVIAN AND SEYMOUR MILSTEIN ENDOWMENT FOR SCHOLARSHIPS Established by the donors in honor of their friends and physicians, Drs. David Habif '39 and Duane Todd '52.

SAMUEL J. MORITZ MEMORIAL Given by the executors of the estate of Samuel J. Moritz.

GULLI LINDH MULLER '21 Bequest of the donor to be awarded with preference to a gifted woman student.

KEN NAIDORF '77 MEMORIAL FUND

P&S SCHOLARSHIP AID AND LOAN FUND Established by the wives of the members of the Faculty of Medicine, faculty, friends of the College.

RUDOLPH AND MARY E. PFEIFFER Given by Mrs. Mary E. Pfeiffer.

RONALD C. PICOFF '60 MEMORIAL SCHOLARSHIP FUND Established in 1974 by Dr. Picoff's classmates.

TOUSSIA AND KERMIT PINES '42 SCHOLARSHIP FUND Endowed by Florence and Herbert Irving.

HARRY R. AND CATHERINE S. POTTER '42 SCHOLARSHIP

PRESBYTERIAN HOSPITAL ALUMNI SCHOLARSHIP Granted with preference to sons and daughters of alumni of Presbyterian Hospital. Given by the Society of the Alumni of Presbyterian Hospital.

WILLIAM COLE RAPPLEYE Established at the retirement of Dean Rappleye.

RICHARD RHODEBECK Given by Mrs. Richard Rhodebeck, in memory of her husband.

EVELYN '58 AND KIM RICHTER SCHOLARSHIP FUND Endowed by Evelyn and Kim Richter.

NATHANIEL RITTER '44 SCHOLARSHIP

JAMES RODISH MEMORIAL SCHOLARSHIP Established by family and friends in memory of James Rodish, to be awarded in alternate years to a student in the School of Nursing and a student in the College of Physicians and Surgeons.

CAROL AND DAVID P. ROYE '75 SCHOLARSHIP FUND

SAGAMORE Awarded to needy students.

JOSEPH E. SAPHIR '02 MEMORIAL Given by Elsa M. Saphir, in memory of her husband, Joseph E. Saphir, Class of 1902.

THE MARY S. SAXE SCHOLARSHIP FUND Bequest of Mary S. Saxe.

ALMA SCHAPIRO ENDOWMENT FUND

AURA E. SEVERINGHAUS Given by faculty members, alumni, and students, in honor of Dr. Severinghaus' services to the College.

TERESA SLOWINSKY SCHOLARSHIP Bequest of Teresa Slowinsky the income to be used for scholarship assistance to such a worthy talented, industrious and needy young woman who has completed her junior or third year of study

BERNARD E. SMITH MEMORIAL Given by Mrs. Gertrude Smith, in memory of her husband

THE JAMES A. STEVENSON '43 MEMORIAL SCHOLARSHIP Established by Mrs. Ann Stevenson Hardesty, in memory of her brother James Albert Stevenson, Class of 1943.

EDGAR EGINTON STEWART, JR. MEMORIAL Given by Dr. E.E. Stewart, Class of 1906, in memory of his son.

ARTHUR PURDY STOUT '12 MEMORIAL Given by the Arthur Purdy Stout Society.

ARNOLD STURMDORF P&S 1886 Awarded to one or more students in their third or fourth years of medical school. Bequest of Miriam Sturmdorf.

DAVID TORNBERG '73 SCHOLARSHIP ENDOWMENT FUND

DIANA AND P. ROY VAGELOS '54 SCHOLARSHIP Established by P. Roy Vagelos, Class of 1954.

HAROLD S. VAUGHAN '04 Bequest of Dr. Harold Vaughan, Class of 1904.

ANDREA VICALE MEMORIAL Established by Dr. Carmine T. Vicale, in memory of his father.

HERMANN VOLLMER P&S 1883 Established in memory by his wife.

THEODORE L. VOSSELER Preference is given to graduates of Colgate University. Given by Dr. Allison J. Vosseler, Class of 1933, in memory of his father, Dr. Theodore L. Vosseler.

DR. CHARLES A. WEBSTER '43 INTERSCHOOL SCHOLARSHIP FUND

ROBERT M. WECHSLER '45 Given by Dr. I.S. Wechsler, in memory of his son, Robert M. Wechsler, Class of 1945, and by members of the Class of 1945, in memory of their classmate.

ISRAEL WEINSTEIN '26 FELLOWSHIP FUND

WHITING-DR. FORDYCE B. ST. JOHN '09 SCHOLARSHIP FUND Gift by the Mrs. Giles Whiting Foundation, in honor of Dr. Fordyce B St. John.

DR. JAMES LANCELOT WILSON '16 Awarded to a student selected by the College of Physicians and Surgeons

LYDIA AND DAVID WOLF SCHOLARSHIP FUND Given by Mr. and Mrs. Wolf to support a needy student of high academic standing and promise

JOHN C. WOOD, JR. '76 MEMORIAL Established by family and friends in memory of Dr. Wood, Class of 1976.

WOODRUFF

WORTHAM '43M (MARION H. AND EDWIN III) MEMORIAL SCHOLARSHIP FUND

GIFT FUNDS

ANONYMOUS SCHOLARSHIP '6S

BALSO P&S ALUMNI SCHOLARSHIP

VALERIE AND GEORGE DELACORTE FOUNDATION Annual gift.

EATON '83 MEMORIAL

GENERAL SCHOLARSHIP GIFT FUND Gifts and memorials by various donors.

JAMES T. LEE FOUNDATION, INC. Annual grant to medical students.

RICHARD P. NESTI '61 SCHOLARSHIP

P&S ALUMNI SCHOLARSHIP

LOUIS AND RACHAEL RUDIN Established by the Rudin Foundation for students of excellence who would not otherwise be able to complete their education.

AURA E. SEVERINGHAUS Established by the Clark Foundation as an unrestricted, discretionary fund to be used primarily to support students and their activities. Priority given to fourth-year students who have increased living and transportation costs because of electing clerkships at Bassett Healthcare, Cooperstown, NY.

JULIUS E. STOLFI MEDICAL EDUCATION AND RESEARCH FUND SCHOLARSHIP

THE SULZBERGER FOUNDATION Annual gift by Judith Sulzberger '49. Awarded to senior students with very good academic records, significant financial need, and plans to pursue careers in family medicine or general internal medicine in non-urban areas.

J.T. TAI FOUNDATION

DONALD AND ITASKER THORNTON SCHOLARSHIP

UNITED DOCTORS OF HARLEM HOSPITAL Annual gift awarded to entering minority students from the metropolitan area.

RALPH J. VEENEMA SCHOLARSHIP

LOANS

Loans are available to all full-time students. Students should be aware that some lenders use creditworthiness as one of the criteria for determining eligibility for loans. Therefore, students with poor credit ratings must rectify past problems before they matriculate. This is particularly true for those who may need to borrow in excess of the standard loan portion of the package to cover parental contribution or additional expenses. The College cannot be responsible if students are denied access to loans due to bad consumer credit or problems with prior educational loans.

An international student in the United States with an F1 or F2 student visa, with a J1 or J2 exchange visitor visa, or with a G-series or H-series visa cannot receive need-based aid from federal or state sources, but may qualify for and receive need-based school loans or "alternative loans" from outside sources which are not federally- or state-sponsored. All loans for internaltional students require creditworthy co-makers who are U.S. citizens or permanent residents. International students who acquire permanent resident status prior to graduation will become eligible for state and federal assistance, and for P&S need-based aids from federal sources.

EXTERNAL LOANS

Federal Stafford Student Loans (Subsidized and Unsubsidized). The Federal Stafford Student Loan program is designed to make low-interest loans available to students to help them meet their educational expenses. You may qualify for a "Subsidized" Federal Stafford Loan which is based on financial need. If you qualify for a Subsidized Federal Stafford Loan, the federal government pays the interest on the loan to the lender (i.e. "subsidizes" it) while you are in school, in grace, or in deferment periods.

If you have a non-need-based Stafford, you have an "Unsubsidized" Federal Stafford Loan, and you will be responsible for the interest during in-school and deferment periods, although you may postpone paying the interest.

Loans are available from commercial and savings banks, savings and loan associations, and credit unions. They are insured by the guaranty agency in each state or a private guaranty agency and reinsured by the federal government.

The standard annual loan limit for graduate students is $18,500 (up to $8,500 may be Subsidized). The total debt allowed for graduate or professional study is $138,500 ($65,500 in Subsidized Federal Stafford Loans and $73,000 in Unsubsidized Staffords). The graduate debt limit includes any Federal Stafford loans received as an undergraduate.

An origination fee of 3% will be deducted proportionately from each loan disbursement. This fee is passed on to the federal government to help reduce the government's cost for these loans. Lenders may also collect an insurance premium of up to 1% which is also deducted proportionately from each disbursement. Regardless of prior borrowing, all new loans made after July 1, 1994 carry a variable interest rate which is capped at 8.25%.

Following a six month grace period and any authorized deferments, a borrower may have up to ten years to repay both principal and interest. If you refinance Staffords under Federal Loan Consolidation, you may extend your repayment period beyond ten years.

Alternative Loan Programs (ALP). These loans are not part of the standard package of P&S recommended loans because interest begins to accrue immediately upon disbursement - no payments are due while in school. They have variable interest rates, without any upper limit. These loans can replace "calculated parental contributions" or allowable expenses which exceed the standard budget.

Student Financial Planning will recommend the best loan available at the time of application. Because terms change often, our office monitors these products to determine which have the most competitive interest rates, origination fees, capitalization policies, deferment options, annual and aggregate loan limit, etc.

COLUMBIA UNIVERSITY LOANS

The *Federal Perkins Loan* program provides long-term, low-interest (5%) loans to students demonstrating exceptional need as defined by the institution. The aggregate amount of Perkins funds a graduate student may receive from all undergraduate and graduate institutions is $40,000; the annual maximum is $6,000. No interest accrues while you are in school or during grace and deferment periods. Once grace and deferment periods have expired, the maximum repayment period is ten years.

The *Primary Care Loan (PCL)* program provides long-term, low interest (5%) loans to students with exceptional financial need. No interest accrues while you are in school or during grace and deferment periods. Principal and interest are repayable over a ten-year period. This loan program, which had been the *Health Professions Student Loan Program (HPSL)*, has the added requirements that you agree to enter and complete a residency training program in primary health care not later than 4 years after the date on which you graduate and also that you practice in such care through the date on which the loan is repaid in full. If you fail to comply with the new requirements, the balance due on your loan will immediately be recomputed from the date of issuance at an interest rate of 12% per year, compounded annually; and the recomputed balance would be payable to the Government not later than 3 years after the date on which you failed to comply.

Fourth-year students who have completed application for residencies are given preference, due to the severe financial penalties the borrower will incur if s/he does not pursue practice in an approved primary care field [this currently includes family medicine, general internal medicine, general pediatrics, and med-peds].

The *Loans for Disadvantaged Students (LDS)* program also provides long term, low interest loans to students from disadvantaged backgrounds with financial need. The interest rate (5%) and other provisions are essentially the same as those for the PCL loan program described above, except that there is no service requirement.

The *P&S Dean's Loan* fund was established in 1982 by the College to offset the burden of "high-interest" loans to students with demonstrated financial need. Repayment of the Dean's loan may be deferred until you have completed advanced professional training, including all fellowships, regardless of length. No interest accrues while you are in school or during grace and deferment periods. Following periods of deferment, principal and interest (9%) are repayable over a maximum of ten years.

"Named" Columbia University Loans are low-interest (4-9%, but most are 9%) loans available to students who demonstrate financial need. Repayment terms vary with each fund. Most require repayment to commence six or nine months after graduation with a maximum repayment period of ten years. In rare cases CU loans will require a co-maker. No interest is assessed during in-school and deferment periods.

PETER AMAZON '21 Bequest of Peter Amazon.

LEONARD ALEXANDER ARMS Bequest of Lydia B. Arms, in memory of her husband, to create a revolving loan fund for scholarship and research to medical students and graduates at P&S.

GEORGE BLUMENTHAL, JR. Used for the assistance of needy students in the medical school.

DR. HARRY BRITTENSTOOL '91 MEMORIAL From the estate of Mrs. Blanche B. Ostheimer, in honor of her brother.

CLASS OF 1906 Gifts from various members of the Class of 1906.

CLASS OF 1919 Gifts from various members of the Class of 1919. To be used for loans to deserving students.

CAROL ELISSA GARDNER '41 Established by Dr. M. Jordan Thorstad, in memory of his wife, Dr. Carol Elissa Gardner Thorstad, Class of 1941.

FRANK J. GILLESPIE FUND From the estate of Frank J. Gillespie. To be used for medical students interested in the field of surgery.

DAVID GREENE A bequest from the estate of Fannye Greene Meyerson, in honor of her brother, Dr. David Greene. Used for assistance of needy students in the medical school and Columbia College.

GEORGE L. HAWKINS, JR. '41 Gift of George L. Hawkins, Jr., Class of 1941.

B.H. HOMAN, JR. REVOLVING LOAN FUND Long-term, low-interest loans for needy students.

WILLIAM AND ROSE KEYBURTZ SCHOLARSHIP LOAN FUND Established by bequest of Dr. Orland L. Keyburtz in honor of his parents.

ROBERT ABBE MACKENZIE '21 Established by friends, colleagues, and patients of Dr. Mackenzie, an alumnus of the Class of 1921.

SIGMUND '22 AND REBECCA MAGE LOAN FUND Established by bequest of Sigmund and Rebecca Leighlow Mage.

GEORGE W. MERCK MEMORIAL Established by the Merck Company Foundation in honor of George W. Merck. For graduates of P&S who need to move more than 300 miles from New York City for their residency training.

JESSIE SMITH NOYES

P&S SCHOLARSHIP AND LOAN ENDOWMENT FUND Given by P&S alumni.

WALTER C. AND MARJORIE C. STEIN Bequest of Marjorie C. Stein.

STEINHARDT MEDICAL SCHOLARSHIP Bequest of Samuel C. Steinhardt. Awarded to graduates of one of the colleges of the City of New York who have attended public schools exclusively (except for religious instruction). To be repaid in 15 years; without interest for the first 10 years; with 5 percent annual interest thereafter on the unpaid balance.

MRS. AND DR. CLYDE WU, P&S '56 STUDENT LOAN FUND

In addition to the foregoing, periodically there are funds for short-term emergency loans, administered through the Health Sciences Office of Student Financial Planning.

PRIZES

DR. HARRY S. ALTMAN PRIZE Awarded to an outstanding senior student who demonstrates a special interest in pediatric ambulatory care. Established to honor Dr. Harry S. Altman, in recognition of his outstanding contributions to scholarship in pediatrics.

ALUMNI ASSOCIATION AWARD Given for outstanding achievement.

VIRGINIA P. APGAR '33 AWARD Awarded to an outstanding graduate student for excellence in completing an advanced course in anesthesiology and intensive care. Established by the Department of Anesthesiology in honor of Virginia P. Apgar, Class of 1933.

MICHAEL H. ARANOW AWARD Awarded to the student who exemplifies the caring and humane qualities of the practicing physician.

HERBERT J. BARTELSTONE AWARD IN PHARMACOLOGY Awarded to a member of the graduating class of the College who has demonstrated exceptional accomplishments in pharmacology. Established to honor the memory of Professor Herbert J. Bartelstone, member of the Department of Pharmacology from 1950 until 1973, dedicated and inspiring teacher, and uncompromising advocate of the rigorous preparation in basic medical science in the education of the physician.

ALVIN BEHRENS MEMORIAL FUND AWARD of the Phi Lambda Medical Fraternity. Given to an able student planning a career in ophthalmology.

EDWARD T. BELLO '49 LISTENING AWARD Given by Jacqueline Bello '80 in honor of Edward T. Bello, award given to the graduating student who will best portray the art of listening in practicing their chosen field of medicine ... to their parents, their colleagues, and themselves.

DR. ROBERT BERTSCH AWARD Established by Dr. Bertsch's colleagues in the Department of Surgery to perpetuate the memory of this esteemed physician and dedicated teacher; to be awarded to a graduating student who best typifies the aims and ideals of this devoted surgeon.

COAKLEY MEMORIAL PRIZE Awarded by the Department of Otolaryngology to a senior student who has done outstanding work in the field.

TITUS MUNSON COAN PRIZE Awarded to the senior student who has submitted the best essay in biological science or otherwise best contributed to its advancement. Bequest of Titus M. Coan.

THOMAS F. COCK, M.D. PRIZE Awarded to a senior student for excellence in obstetrics and gynecology.

ROSAMOND KANE CUMMINS '52 AWARD Established by the Alumni Association for excellence in orthopaedic surgery, to be given to a member of the graduating class who has demonstrated those special qualities of mind and heart that mark the comforter and healer.

GATE PHARMACEUTICALS AWARD Given to a graduating student who has excelled in the study of obstetrics and gynecology or family practice.

FREDERICK PARKER GAY MEMORIAL AWARD Awarded to the senior student whose work in microbiology is judged the most outstanding. Given by Mrs. Frederick Parker Gay, in memory of her husband.

LOUIS GIBOFSKY MEMORIAL PRIZE Awarded to a senior student who submits the best research paper in nephrology, dialysis, transplantation, or immunobiology. The award is in memory of Louis Gibofsky.

THE ARNOLD P. GOLD FOUNDATION AWARD Given to a graduating medical student who has demonstrated clinical excellence and the ideals of the humanitarian care giver.

THE DOCTOR CHARLES E. HAMILTON '18 AWARD Established by Mr. Andrew L. Giffuni to honor Dr. Hamilton, Class of 1918, for excellence in pulmonary diseases.

JANEWAY '27 PRIZE Awarded to the student graduating from the College with the highest marks for achievement and ability. Given by the bequest of Matilda S.J. Wisner.

THE ALBERT B. KNAPP SCHOLARSHIP Awarded at the conclusion of the third year to the medical student considered by the Medical Faculty to have achieved the highest scholarship in the first three years.

ABBIE I. KNOWLTON '42 PRIZE FUND Annual awards to a second and a third year medical student to defray text book expenses.

DR. HAROLD LAMPORT '34 BIOMEDICAL RESEARCH PRIZE Awarded to a senior student for the best thesis reporting original biomedical research. Gift of the Lamport Foundation.

JOHN K. LATTIMER PRIZE IN UROLOGY Awarded to senior students for the best essays on urological subjects.

THE BARBARA LISKIN MEMORIAL AWARD IN PSYCHIATRY Awarded to the graduating student with the empathy, scholarship, and excellence exhibited by Barbara Liskin.

ROBERT F. LOEB AWARD Awarded to a senior student who, in the opinion of the Department of Medicine, has shown the greatest promise of excellence in clinical medicine. Established in memory of Dr. Robert F. Loeb, Bard Professor of Medicine, and chairman of the Department of Medicine from 1947 to 1959.

F. PHILIP LOWENFISH PRIZE IN DERMATOLOGY Awarded to the individual who has done the most creative and original research in dermatology. Given by Mrs. Lowenfish, in her husband's memory.

ADMIRAL DAVID WILLARD LYON AWARD Awarded to a senior student on a military scholarship for outstanding academic achievement. Established by Dr. Edgar Housepian, Class of 1953, and Mrs. David Willard Lyon in Memory of Admiral Lyon.

DOCTOR CECIL G. MARQUEZ BALSO STUDENT AWARD FOR EXCELLENCE Awarded to a graduating minority medical student for his/her outstanding contribution to the Black and Latin Student Organization and the minority communities.

EDITH AND DENTON MCKANE MEMORIAL AWARD Bequest of Edith U. McKane. Awarded to a senior student for excellence in basic or clinical research in ophthalmology.

DR. HAROLD LEE MEIERHOF '17 MEMORIAL AWARD Awarded on recommendation of the professor of pathology to the student who has done the best work in the field during the four years of medical school. Given by the parents of Dr. Harold Lee Meierhof, Class of 1917.

DRS. WILLIAM NASTUK, BEATRICE SEEGAL, AND KONRAD HSU AWARD Given by Dr. Arthur J.L. Strauss, Class of 1958, for a successful student faculty research collaboration.

MARIE NERCESSIAN MEMORIAL AWARD Gift of Ohannes Nercessian, Class of 1981. Awarded to a senior medical student (preferably of American descent) who has shown care, unusual concern, and dedication to helping sick people.

NEW YORK ORTHOPAEDIC HOSPITAL AWARD An annual prize awarded to a senior student upon nomination by the Department of Orthopaedic Surgery, for outstanding performance in the field.

JOSEPH GARRISON PARKER '48 AWARD Awarded to the senior in the College who best exemplifies, through a continued personal interest and activities in art, music, literature, or the public interest, the fact that Living and Learning go on together. Given by Dr. and Mrs. Philip Parker, in memory of their son, Joseph, Class of 1948, whose promising career in medicine was cut short by death in 1953, but in whose life the love of music and the arts was a constant source of inspiration.

P&S CLASS OF 1924, DR. ALLEN O. WHIPPLE MEMORIAL PRIZE Awarded to a senior student, upon nomination of the Department of Surgery, for outstanding performance in the field.

DEPARTMENT OF PSYCHIATRY PRIZE Awarded by the Department of Psychiatry to a second-year student for the best work in psychopathology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN ANATOMY AND CELL BIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in anatomy and cell biology.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN BIOCHEMISTRY An annual prize to be awarded to a graduating medical student or male graduate student for scholarship and outstanding achievement in biochemistry at the College of Physicians and Surgeons.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN GENETICS AND DEVELOPMENT An annual award to a graduating medical student or graduate student, who in scholarship and proficiency achieves the greatest distinction in genetics and development.

SAMUEL W. ROVER AND LEWIS ROVER AWARD IN PHYSIOLOGY An annual prize to be awarded to a graduating medical student or graduate student for scholarship and outstanding achievement in research in physiology.

THE REBECCA A. SCHWARZ MEMORIAL PRIZE Given by Dr. and Mrs. Steven Schwarz, Class of 1974, in memory of their daughter, to be awarded to an outstanding student on a pediatric cardiology elective.

HELEN M. SCIARRA PRIZE Awarded to a senior student in the College for outstanding work in neurology.

THE MIRIAM BERKMAN SPOTNITZ PRIZE Given by Dr. Hyman Spotnitz '39 in memory of Mrs. Spotnitz for outstanding research in the field of oncology.

DR. ALFRED STEINER '38 AWARD Presented annually to one or more students chosen by a faculty committee on the basis of achievement in medical research.

DR. WILLIAM PERRY WATSON PRIZE IN PEDIATRICS Awarded on the nomination of the professor of pediatrics to that member of the graduating class of the College who has shown the most notable work in the study of diseases of infants and children.

DR. WILLIAM RAYNER WATSON AWARD Awarded to that member of the graduating class who has done the most outstanding work in psychiatry during the four years of attendance at the College of Physicians and Surgeons.

SIGMUND L. WILENS PRIZE Awarded to a member of the graduating class who, in the opinion of the Department of Pathology, has been distinguished by special excellence in pathology. Gift of Dr. Marie Renate Dische Wilens, Class of 1957, in memory of her husband, Dr. Sigmund L. Wilens.

STUDENT AND ALUMNI ACTIVITIES

All students enrolled by the College enjoy the privileges and facilities of the Univerity campus, including the Unversity libraries.

P&S CLUB

Founded over 100 years ago, the P&S Club is a student-run organization which complements the formal medical education of P&S students by fostering creativity, camaraderie and leadership in over forty extra-curricular student activities clubs. These clubs draw together the diverse talents of the students of P&S, encouraging artistic expression, the cultivation of both non-medical and career- specific interests, and the challenge of mind and body. From wine-tasting to rugby, theatre to international health, the P&S Club has something for eveyone! The club's officers, elected from each class under the guidance of the Faculty Advisory Board, assume the entire responsibility for managing the club. Those who chair the various activities and groups assist these student officers. The P&S Club is the most active and comprehensive student organization in American medical education today. For more information, visit the club's website at http://cait.cpmc.columbia.edu:88/student/psclub/

ALPHA OMEGA ALPHA HONOR MEDICAL SOCIETY

A chapter of Alpha Omega Alpha, the national honor medical society, was founded at the College of Physicians and Surgeons in 1907. Students are elected to membership in the senior year by a committee of the faculty appointed by the Dean. The committee is chaired by the Alpha Omega Alpha Councilor of the College of Physicians and Surgeons. Student membership is determined according to the constitution of the national society. Consideration for election is limited to those whose scholastic qualifications place them in the upper 25 percent of the class. The number of student members elected from any class may not exceed one-sixth of the number expected to graduate in that class. Although scholastic excellence is required for membership, integrity, capacity for leadership, compassion, and fairness in dealing with one's colleagues are judged to be of equal significance.

P&S ALUMNI ASSOCIATION

The P&S Alumni Association fosters and maintains cordial relationships between the College of Physicians and Surgeons and its alumni. Liaison with the College is facilitated through the office of the Associate Dean for Alumni Affairs.

Members of the Alumni Association include all graduates of the College of Physicians and Surgeons, including M.D.s, Med.Sc.D.s, holders of Certificates in Psychoanalytic Medicine, and Ph.D. graduates of the Basic Sciences Curricula (Anatomy, Biochemistry, Human Genetics, Microbiology, Pathology, Pharmacology, and Physiology). Associate members are academic staff of the College, including interns, residents, and visiting fellows at all hospitals that affiliate their postgraduate training with P&S; P&S students; graduate students in the basic sciences; and spouses of active members.

The work of the Alumni Association is accomplished through the efforts of its officers and members of 17 standing committees, all of whom form the constituency of the P&S Alumni Council. The Association participates in the publication of *P&S*, a journal co-sponsored by the alumni and medical school. The journal serves as a major form of communication between the school and its alumni, faculty, students, and their parents, and other friends and associates of the College.

The P&S Alumni Association supports a wide variety of student-related projects, from the parents program, social events—such as a reception for new students, a holiday mixer for all students, a dinner-dance for graduating students, career forums, mentoring programs, and alumni visiting programs—to scholarships and financial aid.

Restricted revenues raised by the Alumni Association include funds for the student dormitory, scholarships, research, fellowships, professorships, and the Health Sciences Library. Unrestricted revenues allow the College flexibility to apply funds in areas of greatest need. Traditionally, a substantial stipend from unrestricted revenues goes to the P&S Club and to scholarship aid.

As future alumni, students play an important role in the work and deliberations of the Alumni Association. Through the Student-Alumni Relations Committee, students and alumni work together to address students' needs and concerns.

Information about the Alumni Association and its activities is available from the P&S Alumni Relations Office, 630 West 168th Street, New York, NY 10032; telephone: (212) 305-1472; fax: (212) 305-8293; e-mail: couchel@cudept.cis.columbia.edu

THE PROGRAM OF INSTRUCTION

The first-year curriculum is devoted largely to basic science courses with correlation clinics to demonstrate the application of scientific information to the practice of medicine. The first-year student also studies the impact of health care systems in our current society on the individual patient and physician. Second-year courses concentrate on the clinical relevance of basic science concepts as the bridging process to clinical instruction begins. Correlations between pathology and pathophysiology are emphasized. Throughout both preclinical years elective opportunities are available for pursuit of areas of interest.

The major clinical year is devoted exclusively to rotations on clerkships in the clinical disciplines. Under close supervision the students are helped to develop the skills and knowledge required for the practice of clinical medicine. Students learn to elicit a comprehensive history and to carry out a complete physical examination. They learn to develop professional relationships with patients, and they acquire an understanding of the mechanisms of disease and of the principles necessary for valid diagnostic appraisal and effective therapeutic plans.

All courses of the first three years of the curriculum are required of all students. In the fourth year, with the guidance of faculty advisors, students design individual elective curricula, drawn from a wide range of basic scientific electives, clinical electives, and research programs offered by the faculty. The elective courses of all departments are described in a catalog that is printed annually and distributed to students and faculty. Students are permitted to spend three months of the curriculum in elective programs offered by other medical schools. In addition, the School of Public Health offers international medicine programs that provide opportunities to study the organization and delivery of health services in many countries of the world.

During the elective curriculum students have available the resources of the entire University. Students are encouraged to utilize elective curriculum time to reach career decisions. Faculty advisors stress the acquisition of knowledge and skills in areas of medicine apart from he student's career discipline, and they encourage students to gain experience in clinical and/or laboratory research.

The College reserves the right to make changes in the program of studies and courses of instruction at any time.

GRADES, PROMOTIONS, AND LEAVES OF ABSENCE

All courses are rated on an Honors-Pass-Fail-system, and these ratings only are recorded on the official transcripts. Students are not ranked within the class. Faculty provide narrative descriptions of students performances in preclinical courses *(Psychiatric Medicine I and II)*, major clinical year clerkships, and elective programs. These evaluations become part of the student's permanent academic record in the Office of the Dean.

There are three standing faculty committees concerned with students' academic performances. These committees are: The First-Year Class Faculty, the Second-Year Class Faculty, and the Clinical Committee. The latter deals with academic performances in the major clinical year and the elective curriculum. The standing committees meet during each academic year to review student performances and to make decisions related to course failures and to promotions. Course failures in all years of the curriculum must be corrected according to the directives of the faculty committees. A student may be advanced to the next academic year of the medical school curriculum only upon recommendation of the faculty committee. In any year of the curriculum students may be dismissed for poor scholarship. Repetition of a year of the curriculum may be recommended by a faculty committee. The faculty committees may direct students whose performances are marginal to undertake additional work to correct deficiencies and strengthen overall performance in any discipline.

Students are informed in writing of the academic decisions of all faculty committees. Students have the right to appeal decisions of the faculty committees. A student who wishes to appeal may request the concerned committee to reverse or alter a decision. If the committee reaf-

firms the original decision, the student may direct an appeal to the Dean of the Faculty of Medicine, who may refer the appeal to the Executive Committee of the Faculty Council for final decision.

The Faculty of Medicine reserves the right to dismiss or to deny admission, registration, readmission, or graduation to any student who in the judgment of the Faculty of Medicine is determined to be unsuited for the study or practice of medicine.

Students in the College of Physicians and Surgeons are required to pass the United States Medical Liscensing Exam (USMLE) Steps I and II prior to graduation.

Leaves of absence may be granted by the Dean for a limited period of time in exceptional circumstances only for health reasons or personal emergencies.

BASIC SCIENCE AND INTRODUCTORY CLINICAL COURSES OF THE FIRST AND SECOND YEARS

FIRST-YEAR COURSES

M5101. Science Basic to the Practice of Medicine
Dr. Chase and interdepartmental associates.
Lectures, conferences, and laboratories integrating principles of biochemistry, molecular and cell biology, tissues, and systems biology.

Medicine M5101. Clinical Practice (CP) I
Drs. Nickelson, Marcus, and associates.
Lectures, small groups, and interdisciplinary days highlight common health problems of this era and introduce students to basic concepts in epidemiology, the patient-physician relationship, ethics, health care systems, nutrition, disease prevention, and health promotion.

Psychiatry M5101. Psychiatric medicine, I
Dr. Cutler and departmental staff.
Lectures and seminars presenting the salient features of normal development.

Anatomy M5102. Human anatomy
Drs. April, Ambron, and departmental staff.
Lectures, conferences, and laboratory encompassing basic morphological and functional human anatomy.

Anatomy-Physiology M5106. Neural science
Dr. Goldberg and associates.
Lectures, seminars, laboratories, and clinical demonstrations to provide an integrated understanding of neurophysiology, neuroanatomy, biochemistry, and behavior.

SECOND-YEAR COURSES

Medicine M6101. Clinical Practice (CP) II
Drs. Nickelson, Marcus, and associates.
CP II will build on the first-year curriculum and present more advanced topics in biostatistics and epidemiology, ethics and society, medical interviewing, and medical humanities. The overall goal is to prepare students for clinical decision-making by instructing them in the critical evaluation of the medical literature and its application to comprehensive clinical practice, attending to the human and social (as well as patho-physiologic) dimensions of medical care.

Pharmacology M6101. Pharmacology
Dr. Wit and members of the Department of Pharmacology and other participating departments.
This course participates in the combined pathophysiology lecture series for medical and dental students in the second year. This participation is intended to maximize integration of its course material with pathophysiology and pathology. The course emphasis is on the effects of drugs used for the therapy of disease, on normal and abnormal physiological systems. In the fall semester (September through December) the building blocks for understanding the actions and uses of therapeutic agents are taugt followed by drugs used for infectious disease and disorders of the central nervous system. In the winter-spring semester (January through May) lectures are given on drugs used in the treatment of organ system diseases including cardiovascular, pulmonary, renal, endocrine, and oncological. At the end of the year a grade will be given in pharmacology.

Pathophysiology
Pathophysiology I and II enlist faculty from the Department of Medicine, Microbiology, and Pathology in a single integrated series of sections. This overall effort is directed by Drs. Braunstein and Canfield from the Department of Medicine. Dr. Young from the Department of Microbiology, Drs. Lefkowitch and Marcantonio from the Department of Pathology, and Dr. Despommier from the Division of Tropical Medicine in the School of Public Health.

Pathophysiology I
This course occupies the entire fall semester and is taught by faculty from the Departments of Medicine, Microbiology, and Pathology. The four sections are:
Cellular Pathophysiology—directed by Dr. Eugene Marcantonio
Immunology—directed by Dr. Leonard Chess
Basic Microbiology—directed by Dr. Hamish Young
Parasitology—directed by Dr. Dickson Despommier

Pathophysiology II
This course, which runs the entire spring semester, is an integrated educational activity of faculty from the Departments of Medicine, Microbiology, and Pathology. The eight sections are:
Cardiac Pathophysiology—directed by Dr. Ronald Drusin
Pulmonary Pathophysiology—directed by Dr. Yale Enson
Renal Pathophysiology—directed by Dr. Qais Al-Awqati
Gastrointestinal Pathophysiology—directed by Dr. Carol Semrad
Neurologic Pathophysiology—directed by Dr. James Goldman
Endocrine Pathophysiology—directed by Dr. Thomas Jacobs
Oncologic Pathophysiology—directed by Dr. Karen Antman
Infectious Disease Pathophysiology—directed by Dr. Alice Prince

Psychiatry M6102. Psychiatric medicine, II
Dr. Cutler and departmental staff.
Lectures and seminars covering the major mental illnesses and the elements of patient interviewing.

Public Health M6104. Parasitic diseases
Dr. Despommier and associates.
Lectures and laboratories stressing parasitic diseases likely to be encountered and the techniques necessary for the diagnoses of these diseases.

Medicine M6106. Physical diagnoses
Dr. Ortiz-Neu and associates.
An intensive four-week clerkship (at Harlem, Overlook, New York Presbyterian, Roosevelt, or St. Luke's Hospital) during which the student learns to take a comprehensive medical history and perform a complete physical examination.

MAJOR CLINICAL YEAR

Anesthesiology M7201. Clinical clerkship in anesthesiology
Dr. Curry and staff at New York Presbyterian Hospital.
A clerkship that provides training in preanesthetic evaluation, management, and postanesthetic care of surgical patients. At the conclusion of the clerkship students should be able to do the following: (1) describe the major factors to be considered in selecting anesthetic drugs and techniques for patients undergoing common surgical procedures; (2) describe indications for positive pressure ventilation of the lungs and how the adequacy of such ventilation can be determined; (3) differentiate between a patent and obstructed airway in a patient and demonstrate on a patient or mannequin his/her ability to obtain a patent airway by positioning; (4) describe the indications for use of an endotracheal tube; (5) describe procedures used for resuscitation of a patient who has had cardiac arrest and demonstrate on a mannequin his/her ability to perform mouth-to-mouth ventilation and closed chest cardiac massage; (6) describe medications for and contraindications to the use of local anesthetics to provide infiltration and nerve block anesthesia; and (7) describe the causes, preventions, diagnosis and treatment of local anesthetic drug toxicity.

Dermatology M7201. Clinical clerkship in dermatology
Dr. Garzon and staff.

Medicine M7201. Clinical clerkship in medicine
Dr. Garvey and staff at the Harlem, New York Presbyterian, Roosevelt, and St. Luke's Hospitals.
Extended clinical experience under a preceptorship system at New York Presbyterian Hospital and at another affiliated hospital, Harlem, Roosevelt, or St. Luke' Hospital. At the conclusion of the clerkship the student should be capable of taking a precise medical history, performing an accurate physical examination, interpreting basic laboratory data, formulating a cogent problem list, and communicating these data in accurate verbal and written form. These skills will be acquired in the patient care setting in order to increase the student's understanding of the physiologic, psychologic, and social aspects of medicine and to prepare the student for the assumption of clinical responsibility under close supervision.

Neurology M7201. Clinical clerkship in neurology
Dr. Pedley and staff at the Neurological Institute of New York Presbyterian Hospital.
A comprehensive experience in clinical neurology provided at the bedside at the Neurological Institute. Under close supervision of a junior and senior resident and an attending physician in neurology, students learn to obtain a systematic neurological history and to perform and interpret the neurological examination. By active participation in the evaluation and care of patients, expertise is obtained in the diagnosis and treatment of common neurological diseases. Students learn how to do a lumbar puncture, and they become familiar with electrodiagnostic and neuroradiological tests. Experience is also obtained in neurosurgery and rehabilitation medicine. Management of neurological emergencies is learned during night call with the senior resident. In addition, a comprehensive core knowledge of clinical neurology is ensured by a course syllabus, daily rounds, and preceptor sessions with the attending physician.

Neurology M7202. Neurosurgery
Dr. McMulty and staff at the Neurological Institute of New York Presbyterian Hospital.
Included in *Neurology M7201.*

Obstetrics and Gynecology M7201. Clinical clerkship in obstetrics and gynecology
Dr. DeMarco and the staff at the Harlem, New York Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in obstetrics and gynecology under close supervision of house staff and attendings. On the gynecological wards and in the clinics the students learn to take a sexual and gynecological history, to examine the breasts, abdomen, and pelvis, to distinguish normal and abnormal findings relative to gynecological disease, and to diagnose and manage benign and malignant gynecological tumors. The student acquires the skills needed to approach problems of sexuality and an understanding of the impact of changing physiological states in menarche and menopause. On the obstetrical service the students learn the medical and surgical complications encountered during pregnancy and delivery, and the student learns to diagnose and manage pregnancy. The student participates in the conduct of labor, the delivery, and the care of the newborn.

Ophthalmology M7201. Clinical clerkship in ophthalmology
Dr. Letb and staff.

Othopedic Surgery M7201. Clinical clerkship in orthopedic surgery.
Dr. Dick and staff at New York Presbyterian Hospital.
On the orthopedic surgery clership students learn to perform an orthopedic physical examination and to take an orthopedic history from the patient. The clerkship provides students with insight into the more common musculoskeletal problems (including fractures and trauma) and the basic approaches to management of these problems by an orthopedic surgeon. The student is expected to gain insight into how the discipline of orthopedic surgery works in conjunction with other specialties and how an orthopedic service provides in-patient and out-patient care.

Otolaryngology M7201. Clinical clerkship in otolaryngology
Dr. Keller and staff at New York Presbyterian Hospital.
A clerkship designed to teach the skills of physical examination of the ear, nose, and throat and to provide an understanding of certain diseases where this examination is crucial in diagnosis and management. The clerkship includes selected didactic lectures, followed by a preceptor-type experience in the clinic where students examine and work up a number of patients under the direct supervision of a faculty member.

Pediatrics M7201. Clinical clerkship in pediatrics
Drs. Driscoll, Miller, and staff at the Babies and Children's Hospital (New York Presbyterian), Harlem, Roosevelt, and St. Luke's Hospitals.
A clinical clerkship providing both in-patient and ambulatory care experience. The student is introduced to the study of infants and children: growth and development, diseases, and health care maintenance. The student develops basic skills in the following areas: taking the pediatric

history from the parents and from the older child; performing the physical examination of the pediatric patient, including the young infant; observing, analyzing, and recording the interaction between parent and child; and ordering and interpreting laboratory tests. The student learns to integrate the data acquired and formulate an appropriate problem list and plan for the patient. The student also learns to make the basic measurements of physical, neurological, and psychosocial growth and development, and to plot and assess the data.

Interdepartmental M7201. Clinical clerkship in primary care
Drs. Irigoyen, Kurth, and associates at various sites.
A clinical clerkship designed to educate students in the principles and practice of primary care. Students will be placed at clinical practice sites in urban, suburban, or rural areas affiliated with family medicine, internal medicine, or medicine/pediatrics programs. Students will learn to evaluate patients in the outpatient setting, how to assess and prioritize health issues, how to practice preventive medicine, and how integrate patient education into daily clinical practice.

Psychiatry M7201. Clinical clerkship in psychiatry
Dr. Cutler and staff at the New York State Psychiatric Institute, Harlem, New York Presbyterian, Roosevelt, and St. Luke's Hospitals.
A comprehensive clerkship in psychiatry. In active participation in patient care under faculty supervision the student is expected to learn to conduct a psychiatric history and mental status examination and to develop refined interviewing skills, noting verbal and nonverbal behavior. The student learns to make a psychiatric differential diagnosis, to use psychotropic drugs effectively, to evaluate suicide potential, and to develop and enhance therapeutic rapport. The clerkship aims to provide an appreciation of the effects of psychological, social, and biological phenomena on illness-related behaviors.

Radiology M7201. Diagnostic radiology (medical)
Dr. Alderson and staff.

Radiology M7202. Diagnostic radiology (surgical)
Dr. Alerson and staff.

Rehabilitation Medicine M7201. Clinical rehabilitation medicine
Dr. Lieberman and the staff at the Neurological Institute of New York Presbyterian Hospital.

Surgery M7201. Clinical clerkship in surgery
Dr. Rose and staff at New York Presbyterian Hospital.
A comprehensive clinical clerkship during which the student is expected to demonstrate improvement in ability to perform histories and physical examinations on surgical patients and to formulate rational diagnostic and therapeutic plans. The student is expected to demonstrate increasing skill and competence in performing selected procedures, in assuming supervised responsibility for patient care, in communicating succinctly and with clarity to patients and colleagues, and in building a functional body of critically examined information regarding common surgical entities.

Surgery M7202. Lectures and demonstrations in surgical pathology
Dr. Rose and staff; Dr. Perzin and staff.
As part of the surgical clerkship *(Surgery M7201)*, these three one-and-a-half hour sessions per week describe various selected problems in surgical pathology. The didactic lectures are presented by the surgical "academic senior resident" (PGY5). This resident presents the clinical aspects of various surgical diseases and is assisted by a surgical pathology senior resident, who demonstrates gross specimens and microscopic slides appropriate to the topics and patients being discussed.

Urology M7201. Clinical clerkship in urology
Dr. Olsson and staff.
During the clinical clerkship in urology students learn to identify common disorders of the genitourinary tract through precise patient interviews and examinations. Both ambulatory and in-patients are evaluated. By knowing diagnostic methods unique to urology, students are able to formulate appropriate diagnostic and therapeutic plans.

FOURTH YEAR

The fourth-year elective courses are described in a catalog distributed annually to students and faculty. Each student is required to choose an elective in "back to basic" science.

SPECIAL PROGRAMS

PH.D. PROGRAMS

Under the aegis of the Graduate School of Arts and Sciences of Columbia University, Ph.D. programs are offered in the basic science departments of the College of Physicians and Surgeons. All students admitted in this program are provided full tuition, health insurance, and a stipend for personal expenses.

For application and information contact the Associate Dean, Office of Graduate Affairs, 701 West 168th Street, Room 406, New York, NY 10032, telephone (212) 305-8058, fax (212) 305-1031. E-mail: gsasatpands@columbia.edu; Web site: http://epmcnet.columbia.edu/dept/gsas/.

M.D.-PH.D. PROGRAM

This is a cooperative program sponsored by the Graduate School of Arts and Sciences and the College of Physicians and Surgeons for students who have had a strong undergraduate program in science and have a strong commitment to biomedical research. The program allows students to work toward the Ph.D. degree in addition to earning the M.D. degree.

Students who participate in the program are admitted to the College of Physicians and Surgeons and to the Graduate School of Arts and Sciences.

Students complete the basic science requirements of the medical program and enter a participating department or interdisciplinary program of the Graduate School to carry out the Ph.D. program. They then complete the balance of the requirements for the M.D. degree.

The participating Ph.D. programs include:

Anatomy and Cell Biology
Biochemistry and Molecular Biophysics
Biological Sciences
Physiology and Cellular Biophysics
Epidemiology
Genetics and Development
Integrated Program for Cell and Statistics
Institute of Human Nutrition
Microbiology
Pathology
Pharmacology
Chemistry
Psychology
Molecular Biology

For additional information students should write to Dr. David Schachter, Chairman, Graduate Biomedical Sciences Advisory Committee,

Department of Physiology and Cellular Biophysics, College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032.

To apply, students should request an application from the College of Physicians and Surgeons. The application form provides instructions for students applying to the M.D.-Ph.D. program.

DUAL M.D.-M.P.H. (MASTER OF PUBLIC HEALTH) PROGRAM

This dual degree program is under the joint direction of the College of Physicians and Surgeons and the School of Public Health. In addition to preclinical and clinical medical training, students gain substantive knowledge of the methods and content needed to protect and improve health of populations and communities. Methods available include those of health policy and management, epidemiology, biostatistics, and the sociomedical sciences. Students choose from content areas that include health care delivery and financial problems of the environment, disease prevention and health promotion, maternal and child health, and international health. Graduates of the dual program are prepared for careers that combine clinical practice with research and/or administration in public or private sector health care delivery and community health improvement.

Before being considered for admission to the dual degree program, the applicant must be accepted by the College of Physicians and Surgeons. Formal application to the School of Public Health should be made shortly after acceptance to P&S or during the first year of medical training but can be made later in the medical curriculum. Registration and scheduling patterns, and the overall length of the dual program, vary among individual students. The M.D. and M.P.H. degrees usually are awarded simultaneously at the end of the fourth year, but the degrees may be awarded separately if a longer time is needed to meet one set of requirements. In general, dual degree students take a few public health courses in the evenings during the first and second years of medical school and register for a larger number of courses and/or fieldwork tutorials during the fourth year, along with required and elective clinical rotations.

For further information, contact Linda Lewis, M.D., Associate Dean for Student Affairs in the College of Physicians and Surgeons, 630 West 168th Street, New York, NY 10032 (212) 305-3806; or Stephen Rosenberg, M.D., M.P.H., Clinical Professor of Public Health, 600 West 168th Street, New York, NY 10032 (212) 305-3505 or Ellise Delphin, M.D., M.P.H., (212) 305-8216.

THE MACY SCHOLARS M.P.H.-M.D. PROGRAM

There is also a scholarship M.D./M.P.H. program, funded by the Macy Foundation, for a limited number of medical students. Students completing the third year of medical school are eligible to apply for the program and scholarship. Recipients receive full funding for the M.P.H. and spend one year on leave from the medical school, following the third year, in full time study in the School of Public Health. For further information on the Macy Scholarship contact Alicia Benjamin-Stennett, Ed.M., Program Coordinator, Division of Health Policy and Management, School of Public Health, 600 W. 168th St., New York, NY.

M.S.-M.D. PROGRAM (HEALTH SERVICES MANAGEMENT AND MEDICINE)

The Columbia School of Public Health Program in Health Management is a program designed for medical students who wish to acquire the skills and discipline needed to direct and manage the health care system of the 21st century and who are willing to lengthen their medical education by one year. The program encourages these students to move beyond traditional clinical roles when making career decisions and to aim for added leadership responsibilities in planning, policy making, and managing health care organizations. This educational experience in management and public health provides an exceptional opportunity for students to become well-grounded in management science, health economics, financial management, medical care organization, and public health in the initial phases of their training. Is also develops participants' problem-solving skills and decision-making capability.

Before being considered for admission to the dual degree program, applicants must be accepted by the College of Physicians and Surgeons. Formal application to the School of Public Health should be made shortly after acceptance to P&S or during the first year of medical training. Dual degree students usually take a few public health courses in the evenings, on weekends, or during summer sessions during the first and second years of medical school. The formal course of study continues after the second or third year of medical school, when students enroll full-time for a year at the School of Public Health. During fourth-year medical school rotations, participants elect a three-month practicum under the guidance of a physician-manager preceptor. The practicum is designed to meet individual student interests and professional goals and objectives.

For further information, contact Linda Lewis, M.D., Associate Dean for Student Affairs in the College of Physicians and Surgeon, 630 West 168th Street, New York, NY 10032, (212) 305-3806; or Sheila Gorman, Ph.D., MPH, Program Director, School of Public Health, 600 West 168th Street, New York, NY 10032, (212) 305-3724.

INTEGRATED M.D.-ORAL AND MAXILLOFACIAL SURGERY PROGRAM

This program is a cooperative effort of the College of Physicians and Surgeons, the School of Dental and Oral Surgery, and New York Presbyterian Hospital. It has been designed to train specialists equipped to handle the expanded scope of maxillofacial surgical practice and to provide academic, research, and clinical leadership in this area. The program combines study for the M.D. degree at the College of Physicians and Surgeons with residency training in oral and maxillofacial surgery and general surgery at New York Presbyterian Hospital. Candidates must be accepted for admission to both the College of Physician and Surgeons and the residency training program in oral and maxillfacial surgery. Interest candidates should request further information from Dr. Steven M. Roser, Division of Oral and Maxillofacial Surgery, School of Dental and Oral Surgery, 630 West 168th Street, New York, NY 10032.

PROGRAMS IN OCCUPATIONAL THERAPY

The Programs in Occupational Therapy offer an entry-level M.S. degree, a post-professional M.S. degree, and the only joint M.S.-M.P.H. degree (with the School of Public Health) in the country. The programs provide students with a strong foundation in the major treatment areas and prepares them for work with all age groups in a variety of institutional, community, and private practice settings. Graduates of the programs have distinguished themselves as leaders in the profession, working as master clinicians, educators, researchers, administrators, and consultants. The structure of each program allows for multidisciplinary learning and practicum experiences with close faculty-students interaction. Specializations in education, administration, pediatrics, and gerontology/geriatrics are available at the advanced level.

PROGRAM IN PHYSICAL THERAPY

Columbia offers an entry level Master of Science Physical Therapy Program. The goal of the curriculum is to prepare graduates who are self-directed generalists with clinical problem-solving skills. The program

provides a comprehensive foundation of basic principles in the art and science of physical therapy. Graduates are prepared to develop specialty skills, contribute to the leadership and growth of physical therapy, and advance the quality of health care through clinical research and collaboration with other professionals. The Master of Science degree is awarded upon completion of academic study, research, and clinical internships. Students complete an independent faculty-directed research project culminating in a master's thesis. The program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association and is registered by the Department of Education of the State of New York.

PROGRAM OF THE CENTER FOR PSYCHOANALYTIC TRAINING AND RESEARCH

A course of training in the theory and practice of psychoanalysis is offered through the Center for Psychoanalytic Training and Research of the Department of Psychiatry. Full clinical training is offered for clinical psychologists and psychiatrists. Partial training is offered for academic scholars with nonclinical backgrounds. The program, a minimum of four years in length, leads to the award of a certificate in psychoanalysis for those accepted for full training. Training in child analysis is also available. For details, see bulletin of the center.

PROGRAMS IN NUTRITION

The Master of Science program, administered by the Postgraduate Division of the Faculty of Medicine, is a 12-month program that serves as a foundation for students who plan to continue for the Doctor of Philosophy degree or to attend a professional school in the health sciences. In addition, the master's program is offered to physicians and other health specialists who wish to augment their training with knowledge of nutrition. The M.S. degree for physicians and health professionals has been designed to accommodate their academic and scheduling needs. The M.S. degree can be completed on a full- or part-time basis.

Requirement for admission: a bachelor's degree from an accredited college, with a strong emphasis on the sciences, including two years of chemistry, one year of biology, and a course in elementary biochemistry. The Graduate Record Examination is required.

The Doctor of Philosophy program in nutrition is under the jurisdiction of the Executive Committee of the Graduate School of Arts and Sciences. Course work and thesis research leading to the Ph.D. are carried out under the guidance of the Doctoral Subcommittee in Nutrition. The Ph.D. program is designed to train individuals who are interested in pursuing a career in research and teaching in the field of nutrition. The primary goal of the Ph.D. program is to provide thesis training in the nutritional sciences, although some limited opportunities for research in the fields of clinical and public health nutrition are available.

Requirements for admission to the Ph.D. program: very highly qualified and motivated students who have demonstrated scholarly ability for pursuing advanced studies and research, with undergraduate degrees in nutrition, biochemistry, biology, chemistry, or related basic science programs will be considered for direct admission into the Ph.D. program. Directly admitted students who lack formal training in nutrition are expected to fill deficiencies in their course work through course offering from the Master of Science degree program outlined above. Others who have successfully completed the Master of Science program, or its equivalent, and who have demonstrated ability and aptitude for pursuing advanced studies and research also will be considered for admission. All students must fulfill the specific degree requirements set by the Doctoral Subcommittee in Nutrition and the general degree requirements that govern all Ph.D. candidates in the University. The Graduate Record Examination is required of all applicants.

Postdoctoral training in nutrition is offered for qualified individuals holding the degree of Doctor of Medicine, Doctor of Philosophy, or other doctorates in the health professions (dentistry, nursing, optometry, public health). The postdoctoral training is intended for individuals who are pursuing careers in teaching and research in nutrition, with a special emphasis in the modern nutritional sciences. Research projects, selected nutrition courses, seminars, and participation in clinics are offered to qualified individuals. This program has considerable flexibility and is arranged with the individual and his/her preceptor to suit his or her particular goals and needs.

MEDICAL INFORMATICS

The mission of the Department of Medical Informatics at Columbia University is to develop and evaluate innovative information technologies to improve health care, facilitate medical education, and augment clinical research. The department currently has 17 faculty members with backgrounds in medicine, computer science, library science, and dentistry. The research environment benefits from the multidisciplinary character of the faculty, and supports much fruitful collaboration with faculty in molecular biology, computer science, and biostatistics. The department offers a federally funded training program for postdoctoral fellows and programs leading to Ph.D. and MA degrees in Medical Informatics. Medical Informatics pursues research in three main areas:

1. Clinical Data Augmentation explores methods for transforming raw clinical data into information, knowledge, and action. An example of this research is "mining" clinical data to discover new medical knowledge. Knowledge discovery techniques can be employed to assess patient outcomes, and to study interactions between genes and environmental factors. A large amount of clinical information is currently collected as narrative text from transcription and speech recognition software. Our department has pioneered research in natural language processing to extract clinical information from clinical reports to enable further processing and analysis.

2. Enhanced Health Care Communication creates information distribution and visualization techniques to improve communication among health care providers and patients. Among the most important of these efforts is the development of a web-based electronic medical record that enables clinicians to access to a wide range of information about their patients. This technology has been extended to patient homes for asthma monitoring and diabetes care management. Specialized uses include a multimedia workstation for mammography, and new methods for visualizing information from monitors in intensive care.

3. Multimedia Health Education develops new methods of concept organization and visual presentation to educate health care providers and patients. Efforts in this area include the development of a concept-based medical curriculum in collaboration with the Medical school, and a system for chair-side training in the Dental School. New ground is being pursued in patient education using the web-based medical record.

ENDOWED LECTURESHIPS AND VISITING PROFESSORSHIPS

Through the kindness of generous donors, the resources of the Faculty of Medicine include several distinguished lectureships and visiting professorships.

The *Cartwright Lectureship* was established in the late 1870s through a bequest by Benjamin A. Cartwright to the Alumni Association of P&S to organize a course of lectures modeled after the Lettsonian or Croonian Lectures of England. These were highly anticipated formal occasions known for furnishing important summaries of existing knowl

edge or reports of investigations in medicine or surgery.

The *Alexander Ming Fisher Lectures* were established under the terms of the will of Dr. A. M. Fisher's half-brother, E. Douglas Southwick, to make possible lectures on the general theme of Death and Dying.

The *Michael Heidelberger Lectures* were begun in 1955 to honor the notable contributions of Dr. Heidelberger, and to stimulate further scientific progress in immunochemistry and related disciplines.

The *Samuel Rudin Distinguished Visiting Professorship* was established by a grant from the Samuel and May Rudin Foundation. As Samuel Rudin Visiting Professors, scholars from other institutions participate in formal lectures, small informal seminars, and individual sessions with students in medicine, dentistry, public health, nursing, and other health profession programs. The goal is to enlarge and enrich student and faculty perspectives and to build bridges from Columbia to the greater New York community and other academic institutions.

The *Ludwig Schaefer Visiting Professorship* was established by the bequest of the late Ludwig Schaefer to encourage and promote research work in the sciences of human physiology. It provides for the appointment of a visiting professor for six months, from parts of the world other than North and South America.

The *David Seegal Lectureship and Visiting Professorship Fund*, given by the Alpha Omega Alpha Honor Medical Society and others, provides for the appointment of a visiting professor who is in residence for five days. During this time he or she delivers the David Seegal Lecture on Chronic Disease.

PRIZES AND AWARDS

The *Distinguished Service Awards* of the College of Physicians and Surgeons is given annually at Commencement exercises to two members of the faculty for outstanding contributions to medicine.

The *Arnold P. Gold Foundation Award* is given to a physician who has demonstrated compassionate and devoted patient care and who has served as a humanistic role model for students and young physicians.

The *Louisa Gross Horwitz Prize,* the recipient of which traditionally gives a public lecture, was established under the will of the late S. Gross Horwitz in honor of his mother and is given annually in recognition of outstanding basic research in the fields of biology or biochemistry.

The *Charles W. Bohmfalk Memorial Prizes for Distinguished Contributions to Teaching in the Preclinical Sciences and for Teaching in the Clinical Sciences* were established in memory of a graduate of the class of 1883 and are given to a member of the faculty for significant contributions to educational programs of the College.

The *Dr. Harold and Golden Lamport Research Awards* were initiated in 1983 to recognize outstanding young researchers in basic science and in clinical science.

The *Joseph Mather Smith Prize* is awarded to the graduate of the College whose original research in medical subjects is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Stevens Triennial Prize* is awarded to the person, not necessarily a graduate of the College, whose original research on any medical subject is deemed by the Dean's Advisory Committee on Honors and Awards to be the most meritorious.

The *Dean's Award for Excellence in Research* is awarded to the graduating Ph.D. student, selected by a joint faculty and student committee, whose thesis research was most original and distinguished.

The *Dean's Distinguished Lectureships* honor individuals who have made outstanding contributions in their fields. The lecture series is intended to enrich the traditional scholarly exchange between the health sciences faculties, other branches of Columbia University, and the medical community of the New York metropolitan area.

POSTGRADUATE PROGRAMS

POSTGRADUATE COURSES FOR PRACTICING PHYSICIANS

A variety of courses is offered to help practicing physicians keep abreast of new knowledge in diagnosis, treatment, and prevention of diseases. A variety of educational formats is used, depending on the objectives of the course. No University credit or certificates are granted for these courses, but Continuing Medical Education credit is granted toward the Physician Recognition Award of the American Medical Association.

These courses are opportunities for health care practitioners to learn about the latest methods of diagnosis, treatment, and prevention. The instruction consists largely of lectures, demonstrations, discussions, and hands-on opportunities.

For physicians already practicing a specialty, advanced instruction is given in the therapeutic and diagnostic methods of certain limited fields of practice. Enrollment is limited to those who have the necessary preparation to enable them to benefit from advanced instruction.

DEPARTMENTS OF INSTRUCTION

Listed are faculty appointments as of Jan. 1, 1999.

The designation "also" indicates that the faculty member holds appointments in two departments. The designation "in" is used when an individual holds an appointment in the department where listed, with assignment to the department named after the "in."

ANATOMY & CELL BIOLOGY

PROFESSOR AND CHAIRMAN

Michael D. Gershon (in the Center for Neurobiology & Behavior). *B.A., Cornell, 1958; M.D., 1963*

PROFESSORS

Richard T. Ambron. *B.S., Villanova, 1965; Ph.D., Temple, 1971*

Anthony Bellve (in Urology and in the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

Philip W. Brandt. *B.A., Swarthmore, 1952; M.S., Pennsylvania, 1957; Ph.D., Columbia, 1960*

Jeannette C. Bulinski (also Pathology). *B.A., Colorado, 1973; Ph.D., Wisconsin, 1980*

Richard H. Kessin. *B.A., Yale, 1966; Ph.D., Brandeis, 1971*

Ronald K. H. Liem (also Pathology) (in the Center for Neurobiology & Behavior). *B.A., Amherst, 1967; M.S., Cornell, 1969; Ph.D., 1973*

Carol A. Mason (also Pathology) (in the Center for Neurobiology & Behavior). *B.S., Chatham, 1967; M.A., California (Berkeley), 1969; Ph.D., 1973*

Lorna W. Role (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., 1981*

Ann-Judith Silverman. *B.A., California (Los Angeles), 1967; Ph.D., 1970*

Ira A. Tabas (also Medicine). *B.S., Tufts, 1975; M.D., Washington, 1981*

Dominique Toran-Allerand (in the Center for Reproductive Sciences and in the Center for Neurobiology & Behavior). *B.A., Smith, 1955; M.D., Albany Medical College, 1959*

PROFESSOR OF DENTAL & ORAL SURGERY

Letty Moss-Salentijn (Dr. Edwin S. Robinson Professor). *D.D.S., Utrecht (the Netherlands), 1967; Ph.D. 1976*

PROFESSOR OF PSYCHOLOGY

Rae Silver. *B.S., McGill, 1966; M.A., City College of New York, 1970; Ph.D., Rutgers, 1972*

PROFESSOR OF CLINICAL NEUROBIOLOGY & BEHAVIOR

Samuel M. Schacher (in Psychiatry, and in the Center for Neurobiology & Behavior). *B.S., Columbia, 1971; M.A., 1974; Ph.D., 1976*

PROFESSOR OF CLINICAL NEUROCHEMISTRY

Hadassah Tamir (in Psychiatry). *M.S., Hebrew (Jerusalem), 1955; M.D., Israel Institute of Technology, 1959*

PROFESSOR OF CLINICAL NEUROSCIENCE

David A. Ruggiero (also in Psychiatry). *B.A., City University of New York (Queens), 1972; M.A., Columbia, 1976; Ph.D., 1977*

PROFESSOR OF CLINICAL SURGERY

David T. Chiu (T.S. Zimmer Professor of Clinical Reconstructive Surgery). *B.A., University of Missouri, 1969; M.D., Columbia, 1973*

SENIOR RESEARCH SCIENTISTS

Herbert L. Ennis. *B.S., City University of New York (Brooklyn), 1953; M.S., Northwestern, 1954; Ph.D., Northwestern, 1957*

Taube Pearl Rothman (in the Center for Neurobiology & Behavior). *B.A., City College of New York, 1969; Ph.D., Cornell, 1975*

ASSOCIATE PROFESSORS

Ernest W. April. *B.S., Tufts, 1961; Ph.D., Columbia, 1969*

Gregg G. Gundersen (also Pathology). *B.S., Wisconsin, 1977; Ph.D., Washington, 1983*

Liza A. Pon. *B.A., California (Berkeley), 1981; Ph.D., Tufts, 1986*

Howard J. Worman (also Medicine). *B.A., Cornell, 1981; M.D., Chicago, 1985*

ASSOCIATE PROFESSOR OF PATHOLOGY

Eugene E. Marcantonio. *B.A., Rutgers, 1977; M.D., Ph.D., New York University, 1984*

ASSOCIATE PROFESSOR OF PSYCHIATRY

Stephen G. Rayport (in the Center for Neurobiology & Behavior). *B.A., Harvard, 1975; Ph.D., Columbia, 1981; M.D., 1982*

ASSOCIATE PROFESSOR OF CLINICAL PUBLIC HEALTH

Greg A. Freyer (Environmental Health Sciences). *B.S., University of Cincinnati, 1976; Ph.D., University of Missouri, 1981*

RESEARCH SCIENTISTS

Alcmene Chalazonitis. *B.S., d'Aix-Marseille (France), 1965; M.S., 1970; Ph.D., Louis Pasteur (France), 1975*

Annette L. Kirchgessner. *B.A., Hunter, 1979; M.A., City University of New York (Queens), 1981; Ph.D., State University of New York (Brooklyn), 1985*

Joan W. Witkin. *M.A., Columbia, 1975; Ph.D., 1981*

ASSISTANT PROFESSORS

Giulia Baldini. *M.D., School of Medicine and Surgery (Trieste, Italy), 1981; Ph.D., 1988*

Peter Cserjesi. *B.S., University of British Columbia, 1978; M.S., 1981; Ph.D., McGill, 1990*

Thomas Ludwig. *Ph.D., Ruprecht-Karls-Universitat (Heidelberg), 1992*

Judith M. Venuti. *B.S., Northeastern, 1977; M.S., 1980; Ph.D., State University of New York (Buffalo), 1986*

ADJUNCT ASSISTANT PROFESSORS

Laurence A. Borden. *B.S., Long Island, 1977; Ph.D., State University of New York (Health Sciences Center), 1985*

Rae J. Jacobs-Cohen. *B.S., Columbia, 1966; Ph.D., Cornell, 1982*

Larry D. Witte. *B.S., Iowa State University, 1970; Ph.D., 1974*

Zhenglun Zhu. *M.A., Columbia, 1991; M.PHIL., 1992; Ph.D., 1993*

ASSOCIATE RESEARCH SCIENTISTS

Jing-Xian Chen. *M.D., Chaohu (China), 1974; M.S., Anhui (China), 1983; Ph.D., Shanghai (China), 1989*

Piroska Devay. *B.S., Eotvos University (Hungary), 1980; Ph.D., 1985*

Elena Fiorica-Howells. *Ph.D., Milan (Paris), 1980*

Guojuan Liao. *B.S., Nankai (China), 1986; M.S., Tsinghua (China), 1989; Ph.D., State University of New York (Stony Brook), 1993*

Mintsai Liu. *M.A., Columbia, 1987; D.D.S., 1989*

Hui Pan. *M.D., Suzhou Medical College (China), 1983*

Tuan Duc Pham. *B.S., St. Edward's (Texas), 1962; M.S., Loyola, 1967; Ph.D., Columbia, 1975*

SPECIAL LECTURERS

Melvin L. Moss, Ph.D.

Eladio A. Nunez, Ph.D.

ANESTHESIOLOGY

E.M. PAPPER PROFESSOR AND CHAIRMAN

Margaret Wood. *M.B.,Ch.B., University of St. Andrews (Scotland), 1970*

AT COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PROFESSORS

Mieczyslaw Finster (also Obstetrics & Gynecology). *B.A., Gymnasium (Poland), 1941; M.D., Geneva, 1957*

Allen I. Hyman. *B.A., Columbia, 1955; M.D., Albany Medical College, 1959*

Richard S. Matteo. *B.A., Syracuse, 1950; M.D., State University of New York (Upstate), 1955*

Hisayo Morishima (in Obstetrics & Gynecology). *M.D., Toho (Tokyo), 1951; Ph.D., Tokyo, 1960*

Eugene J. Pantuck. *B.S., Tufts, 1959; M.D., 1963*

Robert Sladen. *M.B., Ch.B., University of Cape Town Medical School (South Africa), 1970*

William L. Young (in Neurological Surgery and in Radiology). *B.A., Indiana, 1976; M.D., 1980*

ADJUNCT PROFESSOR

Joseph C.S. Yang. *B.S. National (Taiwan), 1959; M.D., Medical Academy of Dusseldorf (West Germany), 1964*

PROFESSORS OF CLINICAL ANESTHESIOLOGY

Peter T. Rothstein (also Pediatrics). *B.A., Brandeis, 1966; M.D., Albert Einstein, 1970*

Jen Tien Wung (in Pediatrics). *M.D., Taipei Medical College, 1966*

SENIOR RESEARCH SCIENTIST

Yvonne Vulliemoz (also Pharmacology). *M.S., Lausanne, 1958; Ph.D., Paris, 1969*

ASSOCIATE PROFESSORS

Arthur D. Finck. *B.S., Lafayette, 1969; M.D., Columbia, 1972*

Leila M. Pang (also Pediatrics). *B.A., Hawaii, 1966; M.D., State University of New York (Downstate), 1970*

Lena S. Y. Sun (also Pediatrics). *B.S., Massachusetts Institute of Technology, 1975; M.D., Mt. Sinai, 1979*

ASSOCIATE PROFESSORS OF CLINICAL ANESTHESIOLOGY

Ellise S. Delphin. *B.A., Barnard, 1971; M.D., Columbia, 1975*

Carolyn P. Greenberg. *B.A., Stanford, 1962; M.D., California (San Francisco), 1966*

Desmond A. Jordan (in Medical Informatics). *B.S., Cornell, 1974; M.D., Brown, 1979*

Hoshang Jal Khambatta. *M.D., Karachi, 1958*

Eugene Ornstein. *M.S., Polytechnic Institute of Brooklyn, 1973; Ph.D., 1977; M.D., Miami (Florida), 1979*

Richard M. Smiley. *B.S., Massachusetts Institute of Technology, 1977; M.A., Columbia, 1978; Ph.D., 1981; M.D., Miami, 1983*

ASSOCIATE CLINICAL PROFESSORS

Keith J. Bernstein. *B.A., New York University, 1968; M.D., State University of New York (Downstate), 1974*

Anthony R. Brown. *M.B.,Ch.B., Capetown (South Africa), 1972*

Kathryn A. W. Cozine. *M.D., Johns Hopkins, 1961*

Saundra Curry. *B.A., Cornell, 1974; M.D., 1982*

Samantha Mullis. *B.S., Michigan State, 1975; M.D., 1979*

Richard K. Raker. *B.A., Michigan (Ann Arbor), 1969; M.D., 1973*

Peter L. Salgo (also Medicine). *B.A., Columbia, 1971; M.D., 1975*

ASSISTANT PROFESSORS

Michael I. Appel. *B.A., University of Pennsylvania, 1987; M.D., Columbia, 1992*

Deborah Brathwaite. *B.A., Johns Hopkins, 1987; M.D., Columbia, 1991*

Tricia E. Brentjens. *B.S., Duke, 1989; M.D., State University of New York (Buffalo), 1993*

Charles Cain. *B.S., Fordham, 1984; M.D., Columbia, 1988*

Marc L. Dickstein. *B.A., Pennsylvania, 1983; M.D., Columbia, 1987*

Elana B. Doering-Lubit. *B.A., Johns Hopkins, 1981; Ph.D., Massachusetts Institute of Technology, 1986; M.D., Harvard, 1990*

Carmen L. Dominguez. *B.A., Columbia, 1988; M.D., 1992*

Charles W. Emala. *B.S., Maryland, 1979; M.S., 1982; M.D., 1986*

Andrew L. Feit. *B.A., Johns Hopkins, 1988; M.D., Yeshiva, 1992*

Richard S. Finn. *B.S., Massachusetts, 1979; M.D., 1983*

Pamela Flood-Radosloviсh. *B.A., Amherst, 1985; M.D., Columbia, 1990*

Peter A. Goldstein. *B.A., Cornell, 1985; M.D., Mt. Sinai, 1989*

Stephanie R. Goodman. *B.A., Harvard, 1988; M.D., Yale, 1993*

Mark Heath. *B.A., Harvard, 1983; M.D., North Carolina, 1986*

Eric J. Heyer (also Neurology). *B.S., Chicago, 1968; Ph.D., Albert Einstein, 1974; M.D., 1975*

Carol A. Hirshman. *B.S., McGill, 1965; M.D., 1969*

E. Heidi Jerome (also Pediatrics). *B.A., Williams, 1974; M.D. Minnesota, 1978*

Shailendra Joshi. *M.B., B.S. Delhi (India) 1983; M.D., All India Institute of Medical Science (New Delhi, India), 1987*

Hyun Jee K. Kim-Lo. *B.A., City University of New York (Queens), 1989; M.D., State University of New York (Downstate), 1993*

Jae H. Lee. *M.D., Universidade de Sao Paulo (Brazil), 1982*

Heather E. Manspeizer. *B.A., Hamilton, 1986; M.D., Mount Sinai, 1993*

John S. Mercer. *B.S., Scranton, 1980; M.D., College of Medicine and Dentistry of New Jersey, 1987*

Amy E. Mesa-Jonassen. *B.A., Rice, 1981; M.D., Columbia, 1986*

Berend Mets. *M.B., Ch.B., Stellenbosch (South Africa), 1980*

Julian D. Pamm. *M.B., Ch.B., Cape Town (South Africa), 1976*

Amrish Patel. *B.A., Rutgers, 1987; M.D., University of Medicine and Dentistry of New Jersey, 1992*

Jan Ake I. Schultz. *B.A., Missouri, 1985; M.D., 1987*

Richard N. Siegfried. *B.A., Pennsylvania, 1983; M.D., State University of New York (Downstate), 1987*

Eric L. Skolnick (also Pediatrics). *B.A., City University of New York (Queens), 1976; M.D., Medical College of Pennsylvania, 1980*
Robert Whittington. *B.A., New York University,1986; M.D., Columbia, 1990*
Howard A. Zucker (also Pediatrics). *B.S., McGill, 1979; M.D., George Washington, 1982*

ASSISTANT PROFESSORS OF CLINICAL ANESTHESIOLOGY
Mitchell F. Berman. *B.A., Brown, 1977; M.D., Michigan 1981; M.P.H., Harvard, 1983*
Albert N. Faltas. *M.D., Kasr-El-Ainy Medical School (Egypt), 1961*
Matthew T. Levine. *B.A., State University of New York (Buffalo), 1980; M.D., Tel Aviv (Israel), 1984*
Laurence P. Mark. *B.S., Harvey Mudd, 1975; M.D., Columbia, 1979*
William Schechter (also Pediatrics). *B.A., Columbia, 1976; M.S., New York University, 1978; M.D., State University of New York (Buffalo), 1982*
Arthur E. Schwartz. *B.S., Rensselaer Polytechnic Institute, 1978; M.D., State University of New York (Downstate), 1982*
Wendy B. Silverstein. *B.A., New York University, 1982; M.D., 1986*
Arthur J. Smerling (also Pediatrics). *B.A., Yeshiva, 1976; M.D., Pittsburgh, 1980*

ASSISTANT PROFESSOR OF CLINICAL COMPARATIVE ANESTHESIOLOGY
Sulli J. Popilskis (in the Institute of Comparative Medicine). *D.V.M., Lithuanian Veterinary Academy, 1983*

ASSISTANT CLINICAL PROFESSOR OF MEDICAL PSYCHOLOGY
Nomita Sonty (in Psychiatry). *M.A., SIET Women's College (Madras, India), 1980; Ph.D., National Institute of Mental Health and Neurosciences (Bangalore, India), 1989*

ASSOCIATE RESEARCH SCIENTISTS
Kunihisa Hotta. *M.D., Asahikawa Medical College (Asahikawa, Japan), 1992*
Noeleen D. Ostapkovich. *B.A., San Diego State, 1977*

SPECIAL LECTURERS
Henrik H. Bendixen, M.D.
Vance R. Lauderdale, Jr., M.D.

SPECIAL RESEARCH SCIENTIST
Salha S. Daniel, Ph.D.

INSTRUCTOR
Christopher Ciliberto, M.D.

AT MARY IMOGENE BASSETT HOSPITAL

ASSOCIATE CLINICAL PROFESSOR
Andrew L. Rauscher. *M.B., London, 1963; M.B., B.S., 1966*

ASSISTANT CLINICAL PROFESSORS
James C. Anania. *B.S., State University of New York (Albany), 1984; M.D., Mt. Sinai, 1989*
Peter J. Gencarelli. *B.A., Rochester, 1973; M.D., State University of New York (Syracuse), 1977*
Timothy A. Lane. *B.S., Manhattan College, 1974; M.A., Columbia, 1975; M.D., Albany Medical College, 1980*
Edward Palmer. *B.A., Dartmouth, 1967; M.D., Cornell, 1971*
Richard J. Russell. *B.S., Colorado, 1977; B.A., 1987; M.D., Vermont, 1991*

AT HARLEM HOSPITAL CENTER

CLINICAL PROFESSOR
John R. Herbert. *A.B., Columbia, 1969; M.D., 1973*

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY
Yvetot Antoine. *M.D., State University of Haiti, 1962*

ASSISTANT CLINICAL PROFESSORS
Clarissa P. Carino. *B.S., Far Eastern (Manila), 1966; M.D., 1968*
Young In Choi. *M.D., Ewha Woman's University (Seoul), 1975*
Vanessa T. Clarke. *B.A., Colorado Women College, 1975; M.D., State University of New York (Downstate), 1989*
Jacques Dole. *M.D., Medical School of Port-au-Prince (Haiti), 1972*
Alton B. Kinsey, II. *B.A., Hofstra, 1974; M.A., Columbia, 1976; M.D., Wisconsin, 1981*
Moe M. Myint. *M.B., B.S., Institute of Medicine I, (Rangoon, Burma), 1970*
Jung Kie Park. *B.S., Soyang (Seoul), 1972; M.D., Han Yang (Seoul), 1977*
Jose L. Saladin. *B.S., Benefactor-San Cristobal (Santo Domingo), 1959; M.D., Universidad Autonoma (Santo Domingo), 1970*

AT OVERLOOK HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL ANESTHESIOLOGY
Andrew G. Kaufman. *B.A., Virginia, 1984; M.D., 1988*

ASSISTANT CLINICAL PROFESSORS
John Rocco Calabro. *B.S., Manhattan, 1971; M.D., College of Medicine and Dentistry of New Jersey, 1975*
Demetrios B. Kalas. *M.D., Aristotelian, 1954*

INSTRUCTORS IN CLINICAL ANESTHESIOLOGY
Sami A. M. Abadir, M.D.
Jane De V. Stark, M.D.
Carol E. Zimmerman, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

PROFESSOR OF CLINICAL ANESTHESIOLOGY
Daniel M. Thys. *M.D., Catholic University (Leuven, Belgium), 1972*

ASSOCIATE PROFESSORS OF CLINICAL ANESTHESIOLOGY
David J. Birnbach (in Obstetrics & Gynecology). *M.D., Royal College of Surgeons, 1984*
Zaharia Hillel. *B.S., City College of New York, 1971; Ph.D., Albert Einstein, 1977; M.D., Miami, 1981*
Kevin V. Sanborn. *B.S., Manhattan College, 1969; M.D., New York University, 1973*

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Louis M. Brusco, Jr. *B.A., Columbia, 1981; M.D., 1985*
Fazeela Ferouz. *B.S., Maryland, 1987; M.D., 1991*
Ennio Gallozzi. *M.D., Rome, 1953*
Admir Hadzic. *M.D., Sarajevo (Yugoslavia), 1986; M.S., 1990*
Ronny Hertz. *B.S., City College of New York, 1969; D.D.S., Northwestern, 1973; M.D., State University of New York (Upstate), 1978*
Robert Koorn. *M.B., B.Ch., Witwatersrand (South Africa), 1979; M.Med., Pretoria (South Africa), 1988*
Steven M. Lasker. *B.S., Illinois, 1981; M.D., 1985*
Jonathan B. Lesser. *B.A., State University of New York (Purchase), 1981; M.D., Tulane (New Orleans), 1988*

Johanna C. Schwarzenberger. *M.D., Georg-August-Universität (Göttingen, West Germany), 1990*

Deborah J. Stein. *B.S., Union, 1975; M.D., Columbia, 1992*

Jerry D. Vloka. *M.D., Warsaw Medical School (Poland),1983*

ASSISTANT PROFESSOR OF CLINICAL COMPARATIVE ANESTHESIOLOGY

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Philip D. Bamberger. *B.A., City University of New York (Queens), 1977; M.D., Michigan, 1981*

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Michael G. D'Souza. *M.B., B.S., University of Bombay (India), 1981*

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Brian S. Haftel. *B.A., Brandeis, 1990; M.D., University of Florida, 1994*

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Francesco Resta-Flarer (also Pediatrics). *M.D., Padova (Italy), 1976*

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Mark H. Bernhardt, M.D.

Gerard T. De Jesus, M.D.

Dilber Hussein, M.D.

Zdan J. Korduba, M.D.

Tova R. Sebaoun, M.D.

BIOCHEMISTRY & MOLECULAR BIOPHYSICS

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PROFESSORS

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Kathryn J. Calame (also Microbiology). *B.S., Missouri, 1962; M.S., George Washington, 1965; Ph.D., 1975*

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Maxwell Gottesman (Charles H. Revson Professor) (also Microbiology) (in the Institute of Cancer Research). *M.D., Yale, 1960; Ph.D., 1965*

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Arthur Karlin (Eugene Higgins Professor of Neurology) (also Neurology and Physiology & Cellular Biophysics). *B.A., Swarthmore, 1957; Ph.D., Rockefeller, 1962*

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ASSISTANT PROFESSORS

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Craig Bingman. *B.A., University of Kansas, 1985; Ph.D., University of Wisconsin, 1991*

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Jack H. Rozen. *B.S., Pittsburgh, 1958; M.D., 1962*

Robert S. Seibt. *B.A., St. Olaf, 1971; M.D., Minnesota, 1978*

Eugene W. Sweeney. *B.S., Manhattan, 1956; M.D., New York Medical College, 1960*

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Mohammad Athar. *B.S., Lucknow (India), 1975; M.S., 1977; Ph.D., 1980*
Violaine A. Closson. *M.S., Paris (France), 1990; Ph.D., 1995*
Yaping E. *B.S., Beijing Medical University (College of Pharmacy and Pharmaceutical Sciences), 1987; M.D., 1990*
Betty Kong. *B.S., Columbia, 1972; Ph.D., State University of New York (Downstate), 1978*
Yongsheng Ma. *M.D., Shanxi Medical College (Taiyuan, China), 1983; Ph.D., Tianjin Medical College (China), 1988*

SPECIAL LECTURERS

Leonard C. Harber, M.D.
Margarita Hutner, M.D.
Einar A. Juhlin, M.D.
Maureen B. Poh-Fitzpatrick, M.D.
Saul L. Sanders, M.D.
Luis S. Suarez, M.D.
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Amy S. Pappert, M.D.
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Phoebe Rabbin, M.D.
Karin H. Satra, M.D.
Jeffrey Alan Sklar, M.D.
Joel L. Spitz, M.D.
Amy F. Stevens, M.D.
John S. Walczyk, M.D.
Michael J. Yunakov, M.D.

INSTRUCTORS IN CLINICAL DERMATOLOGY

David E. Bank, M.D.
Leslie M. Bitman, M.D.
Jeanne M. Franck, M.D.
Melanie Grossman, M.D.
Wendy E. Lavingston, M.D.
Gina M. Marrero, M.D.
Ralph A. Massey, M.D.
Sherwin Parikh, M.D.
Eric S. Treiber, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

ASSOCIATE PROFESSOR

Vincent Deleo. *B.S., Louisiana State, 1965; M.D., 1969*

ASSOCIATE CLINICAL PROFESSORS

Peter C. Lombardo. *B.S., Rochester, 1955; M.D., Albany Medical College, 1959*
Maritza I. Perez. *B.S., Puerto Rico, 1976; M.D., 1980*
David Sibulkin. *B.A., New York University, 1962; M.D., 1966*

ASSISTANT PROFESSOR

Maria C. Garzon (also Pediatrics) (J. Lowry Miller Assistant Professor). *B.A., Harvard, 1984; M.D., Columbia, 1988*

ASSISTANT CLINICAL PROFESSORS

William P. DiPietro. *B.S., Massachusetts Institute of Technology, 1972; M.D., Georgetown, 1976*
Peter B. Milburn. *B.A., Columbia, 1973; M.D., Einstein, 1977*
Sheryl Miller. *B.S., Tulane, 1982; M.D., State University of New York (Downstate), 1986*

ASSOCIATE RESEARCH SCIENTIST

Edith F. Zaider. *M.P.H., Columbia, 1994*

INSTRUCTORS IN CLINICAL DERMATOLOGY

Diana Bihova, M.D.
Fran E. Cook-Bolden, M.D.
Daniel R. Foitl, M.D.
Lawrence D. Jaeger, D.O.
Gail H. Mautner, M.D.
Elias J. Michael, M.D.
Melanie Schwartz Hecker, M.D.

ASSOCIATES IN CLINICAL DERMATOLOGY

Elaine V. Digrande, M.D.
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GENETICS & DEVELOPMENT

PROFESSOR AND CHAIRMAN

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PROFESSORS

Arthur Bank (also Medicine). *B.A., Columbia, 1956; M.D., 1960*
Marian B. Carlson (also Microbiology) (in the Institute of Cancer Research). *B.A., Harvard, 1973; Ph.D., Stanford, 1978*
Franklin D. Costantini. *B.S., Yale, 1974; Ph.D., California Institute of Technology, 1980*
Riccardo Dalla-Favera (Percy and Joanne Uris Professor) (also Pathology). *M.D., Milan (Italy), 1976*
Argiris Efstratiadis (Eugene Higgins Professor). *Dr. Med. Sc., Athens (Greece), 1971; M.D., 1966; Ph.D., Harvard, 1976*
T. Conrad Gilliam (in Psychiatry). *B.S., Clemson, 1973; M.S., 1977; Ph.D., Missouri, 1981*
Virginia E. Papaioannou. *B.S., California (Davis), 1967; Ph.D., Cambridge (England), 1972*
Rodney J. Rothstein. *B.S., Illinois, 1969; Ph.D., Chicago, 1975*
Eric A. Schon (in Neurology). *B.S., Columbia, 1968; M.S., Cincinnati, 1973; Ph.D., 1982*

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I. Bernard Weinstein (also Frode Jensen Professor of Medicine) (also Public Health) (Environmental Health Sciences) (in the Irving Comprehensive Cancer Center). *B.S., Wisconsin, 1951; M.D., 1955*

Debra Wolgemuth (in Obstetrics & Gynecology and in the Center for Reproductive Sciences). *B.A., Gettysburg, 1969; M.A., Vanderbilt, 1971; M.Phil., Columbia, 1975; Ph.D., 1977*

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Jurg Ott. *Ph.D., Zurich, 1967; M.S., Washington, 1972*

Michael H. Wigler. *B.A., Princeton, 1970; M.S., Rutgers, 1972; Ph.D., Columbia, 1978*

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PROFESSORS OF CLINICAL PSYCHIATRY

L. Erlenmeyer-Kimling. *B.S., Columbia, 1957; Ph.D., 1960*

John D. Rainer. *B.A., Columbia, 1941; M.A., 1944; M.D., 1951*

ASSOCIATE PROFESSOR

Timothy H. Bestor. *B.S., Florida State, 1975; Ph.D., 1981*

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ASSISTANT PROFESSORS

Maggi Allan (in Medicine). *B.A., Stirling (Scotland), 1975; Ph.D., Glasgow, 1979*

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Andrea C. Streit. *Ph.D., Heidelberg (Germany), 1990*

Guoliang Xu. *B.S., Hangzhou University (China), 1985; M.S., Academia Sinica (Beijing), 1988; Ph.D., Max Planck Institute (Berlin, Germany), 1993*

ADJUNCT ASSOCIATE RESEARCH SCIENTIST

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SPECIAL LECTURER

Georgiana Jagiello, M.D.

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George Hripcsak. *B.S., Haverford, 1981; M.D., Columbia, 1985*

PROFESSOR

Paul D. Clayton (in Medicine and in Radiology). *Ph.D., Arizona, 1973*

ADJUNCT PROFESSOR

Terry T. Fulmer. *Ph.D., Boston, 1983*

ASSOCIATE PROFESSOR

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ASSOCIATE PROFESSORS OF CLINICAL MEDICAL INFORMATICS

Carol Friedman. *Ph.D., New York University, 1989*

Stephen B. Johnson. *Ph.D., New York University, 1987*

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ASSISTANT PROFESSORS

Robert A. Jenders (also Medicine). *B.S., Marquette, 1984; M.S., Northeastern, 1993; M.D., Wisconsin, 1988*

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ASSISTANT CLINICAL PROFESSOR

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ASSOCIATE RESEARCH SCIENTISTS

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Qais Al-Awqati (Robert F. Loeb Professor) (also Physiology & Cellular Biophysics). *M.B., Ch.B., Baghdad, 1962*

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INSTRUCTORS IN CLINICAL NEUROLOGICAL SURGERY

David Estin, M.D.

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AT HARLEM HOSPITAL CENTER

ASSOCIATE CLINICAL PROFESSOR

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PROFESSORS

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Stanley B. Holstein. *B.S., George Washington, 1963; M.D., Georgetown, 1967*
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Anne Remmes. *B.A., Marquette, 1966; M.D., State University of New York (Stony Brook), 1975*
Jay F. Selman. *B.A., Washington, 1967; M.S., 1967; M.D., Southwestern, 1973*
Ariel A. Sherbany. *B.S., State University of New York (Stony Brook), 1972; M.D., New York University 1979; Ph.D., 1982*
Philip C. Su. *M.D., National Taiwan, 1966*

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Dengshun Wang. *M.D., Anhui (Hefei, China), 1984; M.S., Third Military Medical University (Chongqing, China), 1987; Ph.D., 1990*
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James F. Hammill, M.D.
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LECTURERS

Miguel Figueroa, M.D.
Robert E. McMasters, M.D.

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Lawrence J. Hirsch, M.D.
Elfrida S. Malkin, M.P.H.
Juan M. Pascual, Ph.D.
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ASSOCIATES IN CLINICAL NEUROLOGY

Sidney M. Cohen, M.D.
Alice H. Rusk, M.D.
Ronald M. Silverman, M.D.

INSTRUCTOR IN CLINICAL NEUROLOGY

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AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSORS

Paul M. Deringer. *B.A., Columbia, 1971; M.D., 1975*
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AT HARLEM HOSPITAL CENTER

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ASSISTANT PROFESSOR

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ASSISTANT CLINICAL PROFESSOR

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AT HELEN HAYES HOSPITAL

ASSISTANT PROFESSOR OF CLINICAL NEUROPHARMACOLOGY

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Scott M. Burns. *B.S., Michigan, 1977; M.S., Wayne, 1980; M.D., Birmingham (Alabama), 1985*

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PROFESSOR OF GENETICS & DEVELOPMENT

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Terry J. Golash, M.D.
Michael F. Grunebaum, M.D.
David K. Jordan, M.D.
Marvin Roy Kremberg, M.D.
Zev W. E. Labins, M.D.
Daniel H. Leal, M.D.
Woon Soon Lee, M.D
Alan Medina, M.D.
Marina Mirkin, M.D.
Henry A. Paul, M.D.
Alicia J. Salzer, M.D.
Norma C. Saunders, M.B., B.S.
Morisa Schiff-Mayer, M.D.
Richard M. Schwarz, M.D.
Keith Sedlacek, M.D.
Jane Simon, M.D.
Robert M. Smith, M.D.
Pauline E. Weiss, M.D.

INSTRUCTORS IN CLINICAL PSYCHOLOGY
Mary E. Carlin, Ph.D.
Peter G. Lincoln, Ph.D.
Ira Moses, Ph.D
Michael A. Roberts, Ph.D
Shara Sand, Ph D
Sabrina Wolfe, Ph.D

PUBLIC HEALTH

JOSEPH DELAMAR PROFESSOR AND DEAN
Allan Rosenfield (also Obstetrics & Gynecology) (in the Center for Population & Family Health) *B.A., Harvard, 1955; M.D., Columbia, 1959*

Biostatistics

PROFESSOR AND ACTING DIVISION HEAD
Bruce Levin (in the Sergievsky Center). *B.A., Columbia, 1968; M.A., Harvard, 1972; Ph.D., 1974*

PROFESSORS
Joseph L. Fleiss (also Mathematical Statistics). *B.A., Columbia, 1959; M.S., 1961; Ph.D., 1967*
Shaw-hwa Lo (also Statistics). *B.S., National Taiwan University, 1975; M.A., California (Santa Barbara), 1978; Ph.D., California (Berkeley), 1981*
Paul Meier (also Howard Levine Professor of Statistics). *B.S., Oberlin, 1945; M.A., Princeton, 1947; Ph.D., 1951*
Wei-Yann Tsai. *B.S., National Chung-Kung University (Taiwan), 1974. M.S., New Brunswick, 1978; Ph.D., Wisconsin (Madison), 1982*

PROFESSOR OF CLINICAL PUBLIC HEALTH
Susan E. Hodge (in Psychiatry). *B.A., Antioch, 1968; D.Sc., Washington, 1976*

ASSOCIATE PROFESSOR
Daniel F. Heitjan. *B.S., Chicago, 1981; M.S., 1984; Ph.D., 1985*

ASSOCIATE PROFESSORS OF CLINICAL PUBLIC HEALTH
Melissa D. Begg. *B.S., Fairfield, 1985; Sc.D., Harvard, 1989*
Myunghee Paik. *B.S., Seoul National, 1982; M.S., Pittsburgh, 1984; Ph.D., 1987*
Priya J. Wickramaratne (in Psychiatry). *B.S., London, 1968; M.S., Stanford, 1970; Ph.D., Yale, 1984*

ASSISTANT PROFESSOR
Ming X. Tang. *M.A., Hunter, 1985; M.Phil., Columbia, 1989; Ph.D., 1990*

ADJUNCT ASSISTANT PROFESSOR
Donald C. Ross. *B.A., Rochester, 1955; M.A., North Carolina, 1957; Ph.D., 1960*

ASSISTANT PROFESSORS OF CLINICAL PUBLIC HEALTH
Emilia Bagiella (in Psychiatry and in the Irving Center for Clinical Research). *B.A., Universita' degli studi "La Sapienza" (Rome, Italy), 1985; M.S., Columbia, 1992; Ph.D., 1997*
Xinhua Liu (in Psychiatry). *Ph.D., Johns Hopkins, 1991*
Michael K. Parides. *B.A., Chicago, 1982; M.S., Columbia, 1985; Ph.D., 1995*
Eva Petkova (in Psychiatry). *M.S., Sofia (Bulgaria), 1982; Ph.D., Pennsylvania State, 1992*
Andrea B. Troxel. *B.S., Yale, 1991, Sc.D., Harvard, 1995*
Roger D. Vaughan. *B.A., Washington, 1982, M.S., Columbia, 1991; Dr.P.H., 1997*

ASSISTANT CLINICAL PROFESSOR

Alan D. Weinberg. *B.S., Rutgers, 1975; M.S., Columbia, 1991*

LECTURER

Mark Davies, M.P.H.

Environmental Health Sciences

PROFESSOR OF PHARMACOLOGY AND DIVISION HEAD

Joseph Graziano. *B.S., Long Island, 1967; Ph.D., Rutgers, 1971*

PROFESSORS

Paul W. Brandt-Rauf. *B.S., Columbia, 1970; M.S., 1973; Sc.D., 1974; M.D., 1979; M.P.H., 1980*

David Jonathan Brenner (also Radiation Oncology). *B.A., Oxford, 1974; M.S., London, 1976; Ph.D., Surrey, 1979*

Dickson D. Despommier (Parasitology) (also Microbiology). *B.S., Fairleigh Dickinson, 1962; M.S., Columbia, 1964; Ph.D., Notre Dame, 1967*

Frederica P. Perera. *B.A., Radcliffe, 1963; M.P.H., Columbia, 1976; Dr.P.H., 1981*

Regina M. Santella. *B.S., Brooklyn, 1969; M.S., Massachusetts, 1971; Ph.D., City University of New York, 1976*

I. Bernard Weinstein (also Frode Jensen Professor of Medicine) (also Genetics & Development) (in the Irving Comprehensive Cancer Center). *B.S., Wisconsin, 1952; M.D., 1955*

PROFESSOR OF CLINICAL RADIOLOGY

Peter D. Esser (Physics) (in Public Health). *B.A., Brown, 1961; M.S., Adelphi, 1964; Ph.D., 1971*

ASSOCIATE PROFESSORS

Tom K. Hei (also Radiation Oncology). *B.S., Wisconsin, 1976; Ph.D., Case Western Reserve, 1983*

Patrick L. Kinney. *B.A., Colorado, 1977; M.S., Harvard, 1982; Sc.C., 1986*

ADJUNCT ASSOCIATE PROFESSORS

James A. Hathaway. *B.A., California (Los Angeles), 1964; M.D., 1967; M.P.H., 1969*

Alan M. Jeffrey (in Pharmacology). *B.S., Hull (United Kingdom), 1966; Ph.D., North Wales, 1970*

ASSOCIATE PROFESSORS OF CLINICAL PUBLIC HEALTH

Greg A. Freyer (in Anatomy & Cell Biology). *B.S., Cincinnati, 1976; Ph.D., Missouri, 1981*

Jeanne M. Stellman. *B.S., City College of New York, 1968; Ph.D., 1972*

ASSOCIATE CLINICAL PROFESSOR

Robert Lewy (also Medicine). *B.A., Rochester, 1967; M.D., New Jersey College of Medicine, 1971; M.P.H., 1976*

ASSISTANT PROFESSORS

Sylvia N. Le Blancq. *Ph.D., London (United Kingdom), 1983*

Wei Zheng (also Pharmacology). *B.S., Zhejiang Medical University, 1982; M.S., 1985; Ph.D., Arizona, 1991*

ADJUNCT ASSISTANT PROFESSORS

Leslie R. Andrews. *B.S., Providence College, 1968; M.A., New York University, 1975; D.P.H., Columbia, 1985*

Christopher P. Dickey. *B.A., Maryland, 1984; M.P.H., Columbia, 1994; D.P.H., 1995*

Herman M. Ellis. *M.D., Boston, 1978*

Michael D. Goldstein. *B.S., State University of New York (Stony Brook), 1979; M.D., Columbia, 1983; M.P.H., 1987*

Henry Hermo, Jr. *B.S., Fairleigh Dickinson, 1961; M.A., Montclair, 1966; D.P.H., Columbia 1985*

Lillian P. Langseth. *B.A. Fairleigh Dickinson, 1961; M.S., New York University, 1968; D.P.H., Columbia, 1990*

Jack Mayer. *M.D., New York University, 1971; M.P.H., Columbia, 1990*

Gabriele Windgasse. *M.S., New Jersey Institute of Technology, 1988; Dr.P.H., Columbia, 1993*

ASSISTANT PROFESSORS OF CLINICAL PUBLIC HEALTH

L. Fleming Fallon, Jr. *B.A., Colby, 1972; M.A., Case Western Reserve, 1973; M.S., Wagner, 1977; M.B.A., New Haven, 1979; Ph.D., St. Lucia (El Paso), 1980; M.D., St. George's, 1984; M.P.H., Columbia, 1986*

Manuela A. Orjuela (in the Center for Psychoanalytic Training & Research). *B.A., Yale, 1985; M.D., 1989; M.S., Harvard, 1996*

ASSISTANT CLINICAL PROFESSORS

Muhammad Akram. *Ph.D., Rutgers, 1981*

Martin G. Blechman. *B.S., George Washington, 1949; M.S., Columbia, 1953; M.D., Jefferson, 1957*

Edward A. Christman. *B.S., Ohio, 1965; M.S., Rutgers, 1974; Ph.D., 1977*

Omar Bruce Dickerson. *M.D., Missouri, 1962; M.P.H., California (Los Angeles), 1966*

Laverne A. Mooney. *B.S., Galway, 1978; M.P.H., Columbia, 1990; Dr.P.H., 1994*

Rachel Rosenstock Leibu. *B.S., Thomas Jefferson, 1983; M.S., Temple, 1985; M.D., Hahnemann, 1992*

Jan Schwarz-Miller. *B.A., Hampshire (Massachusetts), 1976; M.D., Tel Aviv (Israel), 1984; M.P.H., Columbia, 1991*

ASSOCIATE RESEARCH SCIENTISTS

Maneesha Aggarwal. *B.S., Delhi (India), 1986; M.S., Pant (India), 1988; Ph.D., Jawaharlal Nehru (India), 1993*

Ginger L. Chew. *B.S., Georgia, 1990; M.S., Alabama, 1993; Sc.D., Harvard, 1997*

Margaret E. Perkins. *B.S., Tasmania (Australia), 1971; Ph.D., Monash (Australia), 1974*

Deliang Tang (also Environmental Health Sciences). *M.D., Shanghai, 1983; M.S., Rhode Island, 1988*

Robin M. Whyatt. *B.A., Earlham, 1966; M.P.H., Columbia, 1985; Ph.D., 1995*

Yu-Jing Zhang. *M.S., Military Medical College (China), 1985; M.D., Xian Medical University (China), 1982*

Qiuqu Zhao. *M.D., Zhejiang (China), 1983; Ph.D., 1991*

SPECIAL LECTURERS

Dezider Grunberger, Ph.D., Sc.D.

Leonard C. Harber, M.D.

SENIOR LECTURER

Marco Zaider, Ph.D

LECTURERS

Denton C. Brosius, Ph.D.
Arvind Carpenter, Ph.D.
David E. Cohen, M.D., M.P.H.
Vincent Coluccio, Dr.P.H.
Fanny K. Ennever, Ph.D.
Ronald F. Teichman, M.D.
Haig Michael D. Utidjian, M.D.

AT HARLEM HOSPITAL CENTER

ASSISTANT PROFESSOR

Jean G. Ford (Florence Irving Assistant Professor) (also Medicine). *B.A., Columbia, 1978; M.D., 1984*

Epidemiology

PROFESSOR OF CLINICAL PUBLIC HEALTH AND DIVISION HEAD

Ezra A. Susser (also Psychiatry). *B.A., Columbia, 1974; M.D., M.P.H., 1982; Dr.P.H., 1992*

PROFESSORS

Bruce P. Dohrenwend (also Social Sciences) (in Psychiatry). *B.A., Columbia, 1950; M.A., 1951; Ph.D., Cornell, 1955*
W. Allen Hauser (also Neurology) (in the Sergievsky Center). *B.A., Case Western Reserve, 1958; M.D., St. Louis, 1962*
Geoffrey R. Howe. *B.A., London, 1965; Ph.D., Leicester (England), 1969*
Bruce G. Link (in Psychiatry). *B.A., Earlham, 1971; M.S. Columbia, 1980; Ph.D., 1982*
Richard P. Mayeux (Gertrude H. Sergievsky Professor) (also Neurology and Psychiatry). *B.S., Oklahoma State, 1968; M.D., 1972*
Patrick S. Moore (also Pathology). *B.S., Westminster, 1977; M.Phil., M.D., Utah, 1985; M.P.H., California, 1990*
Steven Shea (also Hamilton Southworth Professor of Medicine). *B.A., Harvard, 1968; M.A., Yale, 1971; M.D., Columbia, 1979; M.S., Harvard, 1985;*
Myrna Weissman (in Psychiatry). *M.S.W., Pennsylvania, 1958; Ph.D., Yale, 1974*

ADJUNCT PROFESSORS

Jennie K. Kline (in the Sergievsky Center). *B.A., Chicago, 1972; M.S., Columbia, 1974; M. Phil., 1975; Ph.D., 1977*
Cladd E. Stevens. *B.A., Pomona College, 1963; M.D., Baylor, 1968; M.P.H., Washington (Seattle), 1974*

PROFESSORS OF CLINICAL PUBLIC HEALTH

Patricia R. Cohen (in Psychiatry). *B.A., Hamline, 1958; Ph.D., New York University, 1968*
Deborah S. Hasin (in Psychiatry). *B.A., California (Los Angeles), 1972; M.S., Columbia, 1980; M. Phil., 1985; Ph.D., 1986*

CLINICAL PROFESSOR

William T. Friedewald (also Medicine). *B.S., Notre Dame, 1959; M.D., Yale, 1963*

ASSOCIATE PROFESSORS

Alfred I. Neugut (also Medicine). *B.A., Columbia, 1972; M.D., Ph.D., 1977; M.P.H., 1983*
Ruth Ottman (in the Sergievsky Center). *B.A., California (Berkeley), 1975; Ph.D., 1980*
Ralph Sacco (also Neurology) (in the Sergievsky Center). *B.S., Cornell, 1979; M.D., Boston, 1983*
Elmer Struening. *B.S., Hastings, 1949; M.S., Purdue, 1951; Ph.D., 1957*

ADJUNCT ASSOCIATE PROFESSORS

Seth F. Berkley. *B.S., Brown, 1978, M.D., 1981*
Alfredo Morabia. *M.D., Geneva, 1978; M.A., Johns Hopkins, 1987 Ph.D., 1989*

ASSOCIATE PROFESSORS OF CLINICAL PUBLIC HEALTH

Mary T. Bassett. *B.A., Harvard, 1974, M.P.H., Washington State, 1985, M.D., Columbia, 1979*
Mary Ann Chiasson. *B.A., Bennington, 1972, M.S., New York University, 1978; M.P.H., Columbia, 1985, Dr.P.H., 1988*
Marilie D. Gammon. *B.S., California (Berkeley), 1974, M.P.H., Washington (Seattle), 1982, Ph.D., Yale, 1989*
Madelyn S. Gould (in Psychiatry). *B.S., Brooklyn College, 1972, M.A., Princeton, 1974; M.P.H., Columbia, 1976; Ph.D., 1980*
Carolyn L. Westhoff (also Obstetrics & Gynecology). *B.S., Michigan, 1972; M.D., 1977; M.S., London School of Hygiene & Tropical Medicine, 1983*
Isaac B. Weisfuse. *B.A., Columbia, 1977; M.D., State University of New York (Downstate), 1982*

ASSOCIATE CLINICAL PROFESSOR

L. David Carmichael (also Medicine). *B.A., Harvard, 1969; M.D., Albert Einstein, 1976*

ASSISTANT PROFESSORS

Habibul Ahsan. *M.B., B.S., Dhaka (Bangladesh), 1988; Mast., Western Australia, 1992*
Maureen S. Durkin (in the Sergievsky Center). *Ph.D., Wisconsin, 1982*
Pamela Factor-Litvak. *B.A., Rochester, 1977; M.S., Harvard, 1979; Ph.D., Columbia, 1992*
Louise Kuhn (in the Sergievsky Center). *B.A., Cape Town (South Africa), 1987; M.A., 1991; M.P.H., Columbia, 1993; Ph.D., 1995*
Stephen S. Morse. *B.S., City College of New York, 1971; M.S., Wisconsin, 1977; Ph.D., 1977*
Mary E. Northridge. *B.A., Virginia, 1980; M.P.H., Rutgers, 1988; Ph.D., Columbia, 1993*
Ariel Pablos-Mendez (also Medicine). *M.D., Guadalajara (Mexico), 1985; M.P.H., Columbia, 1992*
Sharon B. Schwartz. *B.A., Albert Einstein, 1973; M.A., Columbia, 1974; Ph.D., 1985; M.S., 1988*
J. Blake Turner. *B.A., Western Ontario, 1982; M.A., 1984; Ph.D., Michigan, 1989*

ADJUNCT ASSISTANT PROFESSORS

Steven R. Arikian. *B.S., Fordham, 1979; M.D., Catania, (Italy) 1987*
Erica L. Gollub. *B.S., Stanford, 1979; M.P.H., Columbia, 1982; Dr.P.H., 1991*
Beryl Koblin. *B.A., Delaware, 1978; M.S., Johns Hopkins, 1982; Ph.D., 1987*
Judith E. Sackoff. *B.A., Rochester, 1972; M.A., Washington (Missouri), 1973; M.S., Columbia, 1986; M.Phil., 1990; Ph.D., 1992*
Scott Stryker. *B.A., Rice, 1973; M.D., Baylor, 1977; M.P.H., Harvard, 1982; Dr.P.H., 1987*

ASSISTANT PROFESSORS OF CLINICAL PUBLIC HEALTH

John David Burch. *B.A., Calgary (Canada), 1967; M.S., (Toronto), 1969*
Moise Desvarieux. *M.D., Haiti, 1986; M.P.H., Columbia, 1991*
Christina Hoven (in Psychiatry). *B.A., Lindenwood, 1966; M.A., Missouri, 1968; M.P.H., Columbia, 1983; M.S., 1987; Dr.P.H., 1988*

Judith S. Jacobson. *B.A., Brown, 1964; M.B.A., Columbia, 1986; M.P.H., 1986; D.P.H., 1995*

Robert E. Moore (in Psychiatry). *B.A., Virginia, 1979; M.S., Columbia, 1981; M.P.H., 1982; Ph.D., 1992*

Godwin U. Obiri. *B.S., West Virginia, 1984; M.S., 1986; Dr.P.H., Alabama (Birmington), 1990*

Susan A. Wilt. *B.A., Bennington (Vermont), 1964; M.S., Columbia, 1978; M.P.H., 1985*

ASSISTANT CLINICAL PROFESSORS

Thomas R. Frieden. *B.A., Oberlin, 1982; M.D., M.P.H., Columbia, 1986*

Charlotte A. Stueve. *B.A., Michigan, 1971; M.A., Chicago, 1974; Ph.D., California, 1985*

SPECIAL LECTURERS

Anna C. Gelman, M.P.H.

Inge F. Goldstein, Dr.P.H.

Zena A. Stein, M.B.,Ch.B.

Mervyn W. Susser, M.B., Ch.B.

LECTURER

Dale C. Hesdorffer, Ph.D.

AT HARLEM HOSPITAL CENTER

ASSISTANT CLINICAL PROFESSOR

Linnea Capps (also Medicine). *B.S., Kansas, 1971; M.D., Missouri, 1977; M.P.H., Columbia, 1985*

AT HELEN HAYES HOSPITAL

ADJUNCT ASSISTANT PROFESSOR

Jeri W. Nieves. *B.S., Rhode Island, 1981; M.S., Cornell, 1984; Ph.D., Columbia, 1993*

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

ASSISTANT PROFESSOR

Stephen M. Arpadi (also Pediatrics). *B.A., Antioch (Ohio), 1975; M.D., George Washington, 1982; M.P.H., Columbia, 1982*

Health Policy and Management

ASSOCIATE PROFESSOR AND DIVISION HEAD

Sherry A. M. Glied. *B.A., Yale, 1982; M.A., Toronto, 1985; Ph.D., Harvard, 1990*

PROFESSORS

Lawrence Brown. *B.A., Harvard, 1969; Ph.D., 1973*

Jane E. Sisk. *B.A., Brown, 1963; M.A., George Washington, 1965; Ph.D., McGill, 1976*

ADJUNCT PROFESSORS

Howard L. Bailit. *D.M.D., Tufts, 1962; M.S., Harvard, 1964; Ph.D., 1967*

Joseph A. Califano (in Psychiatry). *B.A., Holy Cross (Worcester), 1952; LL.B., Harvard, 1955*

Noreen M. Clark. *B.S., Utah, 1965; M.A., Columbia, 1972; Ph.D., 1976*

CLINICAL PROFESSORS

Ronald B. Conners. *B.A., New School, 1973; M.A., 1975; Ph.D., 1980*

Samuel Davis. *B.A., City College of New York, 1952; M.S., Columbia, 1957*

Thomas P. Ference. *B.S., Carnegie-Mellon, 1963; M.S., 1966, Ph.D., 1967*

Sheila A. Gorman. *B.S.N., Niagara, 1959; M.P.H., Columbia, 1972; M. Phil., 1981; Ph.D., 1982*

Richard J. Greene (in Medicine). *B.A., Johns Hopkins, 1959; M.D., 1963; Ph.D., Massachusetts Institute of Technology, 1967*

Joan M. Leiman. *B.A., Wellesley, 1955; M.A., Columbia, 1958; M.Phil., 1975; Ph.D., 1977*

Stephen N. Rosenberg. *B.A., Cornell, 1963; M.D., Albert Einstein, 1967; M.P.H., Harvard, 1969*

ASSOCIATE PROFESSORS

Bernard Challenor. *B.A., Hunter, 1957; M.D., State University of New York (Downstate), 1961; M.P.H., Harvard, 1963*

Anne C. Gelijns Pannenborg (also Surgical Science) (in Surgery). *LL.B., Leyden (Netherlands), 1980; LL.M., 1983; Ph.D., Amsterdam (Netherlands), 1991*

Michael S. Sparer. *B.A., Beloit (Wisconsin), 1977; J.D., Rutgers, 1980*

ADJUNCT ASSOCIATE PROFESSORS

Harold Fructhbaum (History and Philosophy of Public Health). *B.C.E., New York University, 1955; M.S., Rensselaer Polytechnic Institute, 1956; Ph.D. Harvard, 1964*

Lois A. Grau. *B.S.N., Marquette, 1968; M.S., Wisconsin, 1976; Ph.D., 1979*

Lloyd F. Novick. *B.A., Colgate, 1961; M.D., New York University, 1965; M.P.H., Yale, 1971*

Lawrence F. Wolper. *B.A., Hofstra, 1968; M.B.A., Baruch, 1973*

ASSOCIATE CLINICAL PROFESSORS

Michael P. O'Connor. *B.A., St. John's, 1972; M.P.A., City University of New York, 1977; M.Ed., Columbia, 1987; Ed.D., 1991*

Louis D. Pizzarello (also Ophthalmology). *B.A., Colgate, 1971; M.P.H., Harvard, 1974; M.D., Virginia, 1975*

ASSISTANT PROFESSOR

Joshua Zivin. *B.A., Rutgers, 1993; M.S., California (Berkeley), 1994; Ph.D., 1998*

ADJUNCT ASSISTANT PROFESSORS

Donald L. Ashkenase. *B.S., Brooklyn, 1965; M.B.A., Wagner, 1974*

John Baer. *B.A., Oberlin, 1959; M.S., Columbia, 1961; D.P.A., New York University, 1967*

Willine Carr. *B.A., North Carolina (Greensboro), 1967; M.P.H., North Carolina (Chapel Hill), 1970; M.P.H., Columbia, 1982*

Annette Choolfaian. *B.S., Bridgeport, 1964; M.P.A., New York University, 1972*

Merle C. Cunningham. *B.A., Rochester, 1967; M.D., 1972; M.P.H., Columbia, 1976*

William E. Gold. *B.A., State University of New York (Stony Brook), 1970; M.S.S., Hebrew (Israel), 1972; Ph.D., Minnesota, 1982*

Nancy Graham. *M.P.H., Columbia, 1972; Ph.D., 1976*

Elane M. Gutterman. *B.A., State University of New York (Albany), 1972; M.S.W., Yeshiva, 1974; Ph.D., Columbia, 1983*

Henry R. Karpe. *B.A., College of the City of New York, 1952; M.S., Wisconsin, 1972*

Jeffrey S. Markowitz. *B.A., Queens (New York), 1972; M.P.H., Columbia, 1980; Dr.P.H., 1988*

Marcia L. Pinkett-Heller. *B.A., Howard, 1963; M.P.H., Michigan, 1970*

Arnold E. Rosenblum. *B.A., Brooklyn, 1947; J.D., New York University, 1950; M.S., Columbia, 1964*

James R. Tallon, Jr. *B.A., State University of New York* (Syracuse), 1963; *M.A., Boston, 1967*
Eileen A. Tynan. *B.A., Marymount, 1966; Ph.D., Colorado, 1981*
Michael L. Ziegler. *B.A., State University of New York (Albany), 1972; J.D., State University of New York (Buffalo), 1976; M.P.H., Columbia, 1978*

ASSISTANT PROFESSORS OF CLINICAL PUBLIC HEALTH

David A. Albert (also Dental & Oral Surgery). *B.A., New York University, 1980; D.D.S., 1984; M.P.H., Columbia, 1987*
Margaret A. Hamburg. *B.A., Harvard, 1978; M.D., 1983*
Stephen E. Marshall (also Dental & Oral Surgery). *B.A., Case Western Reserve, 1982; D.D.S., State University of New York (Buffalo), 1986; M.P.H., Columbia, 1989*
Alan J. Moskowitz. *B.A., Vermont, 1974; M.D., New York Medical College, 1978*
Anne M. Reisinger. *B.A., Rochester, 1980; M.S., 1981; Ph.D., 1988*

ASSISTANT CLINICAL PROFESSORS

Joseph C. D'Oronzio. *B.A., Syracuse, 1959; M.P.H., Harvard, 1980; Ph.D., Syracuse, 1965*
David Lawrence Ginsberg. *B. Arch., Cornell, 1955*
Daniel W. Morrissey. *M.A., Pontifical Faculty of St. Thomas Aquinas, 1958; M.A., Aquinas Institute of Theology, 1962; S.T.Lr., 1963*
Richard S. Thomas. *B. Arch., Pratt Institute, 1968*

ASSOCIATE RESEARCH SCIENTIST

Margaret A. Kelaher. *B.S., New South Wales (Sydney, Australia), 1990; Ph.D., 1996*

SENIOR LECTURERS

Thomas J. Foley, M.S.
David G. Pockell, M.S.

LECTURERS

Frederick D. Alley, M.S.
Barbara Bengen, M.B.A.
Matthew R. Borsch, M.P.H.
Robb K. Burlage, Ph.D.
Pinka Chatterji, Ph.D.
Benjamin K. Chu, M.P.H.
Ronald B. Dreskin, M.B.A.
Nicholas Freudenberg, Dr.P.H.
Gary Gambuti, M.P.H.
Katherine E. Garrett, M.B.A.
Jordan D. Haller, M.D.
James T. Harden, M.P.H.
David Harris, M.D.
Stan. W. Kachnowski, M.A.
Florence Kavaler, M.D.
Edward L. Kleinert, M.B.A.
Thomas H. Kramer, Ph.D.
David E. Leach, III, J.D.
Arthur A. Levin, M.D.
Jacob J. Lindenthal, Ph.D.
Regina Loewenstein, M.A.
Robin A. Maley, M.P.H.
Robert Markowitz, M.S.
Ruth M. Martin, M.P.H.
Glenna R. Michaels, B.A.
Donna O'Hare, M.D.
Katherine L. Puder, Dr.P.H.
Annette Ramirez De Arellano, Dr.P.H.
Alan H. Rosenblut, M.B.A.
Norman D. Schwartzben, M.S.
Alvin Strelnick, M.D.
Linnette Webb, M.P.A.
Elaine M. Wolfson, Ph.D.

ASSOCIATES

Susan L. Browning, M.P.H.
Judy Liu, M.P.H.
Dennis P. Novick, M.P.H.

INSTRUCTOR

Ilona W. Surick, M.P.H.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

ADJUNCT PROFESSOR

Mathilde Krim (in Pediatrics). *B.S., Geneva (Switzerland), 1948; Ph.D., 1953*

ADJUNCT ASSISTANT PROFESSOR

John Kastan. *B.S., New York University, 1970; M.A., New School for Social Research, 1979; Ph.D., The City University of New York, 1991*

Population & Family Health

PROFESSOR AND DIVISION HEAD

James McCarthy (Harriet and Robert H. Heilbrunn Professor). *B.A., Holy Cross, 1971; M.P.H., Indiana, 1976; Ph.D., Princeton, 1977*

PROFESSORS

Andrew R. Davidson. *B.A., Sterling; M.A., Illinois, 1971; Ph.D., 1974; M.B.A., Harvard, 1989*
Sami A. Hashim (Public Health Nutrition). *B.A., Beirut, 1950; M.S., 1952; M.D., State University of New York (Buffalo), 1955*

ADJUNCT PROFESSORS

Joy G. Dryfoos. *B.A., Antioch, 1951; M.A., Sarah Lawrence, 1960*
Susan G. Philliber. *B.A., Florida State, 1965; M.S., 1966; Ph.D., 1968*

PROFESSORS OF CLINICAL PUBLIC HEALTH

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Giorgio R. Solimano (in the Institute of Human Nutrition). *B.S., Chile, 1952; M.D., 1960*
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CLINICAL PROFESSORS

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Nahid Toubia. *M.B., Ch.B., Cairo, 1975*
Alicia E. Yamin. *B.A., Radcliffe, 1987; J.D., Harvard, 1991*

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Abdel-Hadi H. El-Tahir. *M.B., B.S., Khartoum (Sudan), 1978; M.P.H., Columbia, 1991*
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SPECIAL LECTURER

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Barbara E. Harrell-Bond, Ph.D.
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Sociomedical Sciences

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ASSISTANT CLINICAL PROFESSORS

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Laura Lee Dean. *Ed.M., Columbia, 1980; M.A., 1978; B.A., City College of New York, 1974*

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SPECIAL LECTURER

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SPECIAL RESEARCH SCIENTIST

Ann F. Brunswick, Ph.D.

LECTURERS

Raymond Fink, Ph.D.
Daniel B. Herman, D.S.W.
Kim Hopper, Ph.D.
Debbie S. Indyk, Ph.D.
Navneet, Kathuria, M.P.H.
Mary L. Kenny, Ph.D.
Corinne Kirchner, M.Phil.
Joanne E. Mantell, Ph.D.
Joseph Marbach, D.D.S.
Margaret Rosario, Ph.D.
Lucille Rosenbluth, M.P.A.
Daniel R. Vasgird, Ph.D.
David P. Willis, M.P.H.

AT HARLEM HOSPITAL CENTER

ASSISTANT PROFESSORS OF CLINICAL PUBLIC HEALTH

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Ilan Meyer. *B.A., Tel Aviv (Israel) 1981; M.A., New School for Social Research, 1987; Ph.D., Columbia, 1993*

RADIATION ONCOLOGY

PROFESSOR AND CHAIRMAN

Peter B. Schiff. *B.A., Brandeis, 1975; M.S., Albert Einstein, 1978; Ph.D., 1980; M.D., 1984*

AT COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PROFESSOR

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PROFESSOR OF RADIATION BIOPHYSICS

Eric J. Hall (Eugene Higgins Professor) (also Radiology) (Physics). *D.Phil., Oxford, 1962; D.Sc., 1978*

PROFESSOR OF CLINICAL RADIATION ONCOLOGY

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ASSOCIATE PROFESSORS

Tom K. Hei (also Public Health) (Environmental Health Sciences). *B.S., Wisconsin, 1958; Ph.D., New York University, 1974*
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Steven R. Isaacson (also Otolaryngology)(in the School of Dental & Oral Surgery). *B.S., Pennsylvania State, 1969; M.D., Jefferson, 1973*
Richard Calvin Miller. *B.A., Iowa, 1969; M.S., 1972; Ph.D., 1976*
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RESEARCH SCIENTIST

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John Rescigno. *B.A., Pennsylvania, 1986; M.D., New York University, 1990*
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SENIOR LECTURER

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AT MARY IMOGENE BASSETT HOSPITAL

ASSISTANT CLINICAL PROFESSOR

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PROFESSORS OF PSYCHIATRY

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Patrick Allen Dietz. *B.A., Holy Cross, 1966; B.M.S., Dartmouth, 1968; M.D., Harvard, 1970*

ASSISTANT PROFESSOR OF CLINICAL SURGERY

James Bordley, IV. *B.A, Yale, 1965; M.D., Columbia, 1970*

ASSISTANT CLINICAL PROFESSORS

Steven J. Heneghan. *B.S., United States Merchant Marine Academy,* 1980; M.D., New York University, 1986
W. Thomas Huntsman. *B.A., Wake Forest, 1979; M.D., Bowman Gray, 1983*
Robert M. Moglia. *M.D., State University of New York (Downstate), 1982*
M. Bernadette Ryan. *B.S., Indiana, 1975; M.D., Indiana State, 1979*

AT HARLEM HOSPITAL CENTER

PROFESSOR

Soji Oluwole. *B.S., Ibadan, 1967; M.B.,B.S., 1970*

PROFESSORS OF CLINICAL SURGERY

Barbara Barlow. *B.A., Vassar, 1960; M.A., Columbia, 1963; Ph.D., 1964; M.D., Albert Einstein, 1967*
Harold P. Freeman. *M.D., Howard, 1958*

CLINICAL PROFESSOR

Ferdinand A. Ofodile. *B.S., Northwestern, 1964; M.D., 1968*

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

Arthur Cooper (in the Institute of Human Nutrition). *B.A., Harvard, 1971; M.D., Pennsylvania, 1975*

ASSOCIATE CLINICAL PROFESSOR

Mohamad H. Parsa. *B.S., Tehran, 1957; M.D., 1963*

ASSISTANT PROFESSORS OF CLINICAL SURGERY

Monqidh M. Al-Sawwaf. *M.D., Pahlavi, 1976*
David L. Friedman. *B.A., Rutgers, 1966; M.S., 1967; M.D., State University of New York (Downstate), 1971*
Ganepola A. Ganepola. *B.S., Kyoto, 1966; M.D., 1967*
Sitaram Pillarisetty. M.D., Andhra (India), 1969

ASSISTANT CLINICAL PROFESSORS

Albert K. Adu. *M.D., University of Ghana, 1974*
Egel Francois. *M.D., State University (Port-au-Prince, Haiti), 1955*
Rajunder P. Gandhi. *M.B., B.S., Institute of Medicine (Mandalay), 1966*
Edoardo Giuliani. *M.D., Rome (Italy), 1955*
Avtar S. Josen. *B.S., Delhi University (India), M.B.,B.S., All India Institute, 1962*
Norman G. Morrison. *M.B., B.S., West Indies, 1980*

SPECIAL LECTURER

Robert F. Morton, M.D.

LECTURER

Narayan Sundaresan, M.D.

INSTRUCTOR IN CLINICAL SURGERY

Deodatta V. Bendre, M.D.

AT OVERLOOK HOSPITAL

CLINICAL PROFESSOR

Richard W. Brenner. *B.A., Princeton, 1954; M.D., Columbia, 1958*

ASSOCIATE CLINICAL PROFESSORS

David Befeler. *B.A., Columbia, 1955; M.D., 1959*
Bruce J. Brener. *B.A., Yale, 1962; M.D., Harvard, 1966*
Jerrold S. Lozner. *B.A., Columbia, 1967; M.D., Louisville, 1971*
Charles J. Wittmann, Jr. *B.A., Princeton, 1958; M.D., Pennsylvania, 1962*

ASSISTANT CLINICAL PROFESSORS

Marc S. Mandel. *B.A., Brandeis, 1980; M.S., Georgetown, 1981; M.D., Albert Einstein, 1985*
Daniel L. Moore. *M.D., Johns Hopkins, 1958*

ASSOCIATES IN CLINICAL SURGERY

Joseph V. Bocchino, M.D.
Walter Groff, M.D.
Robert E. Knapp, M.D.

AT STAMFORD HOSPITAL

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

James E. Barone. *B.A., West Virginia, 1967; M.D., Jefferson, 1971*

ASSISTANT CLINICAL PROFESSORS OF SURGERY

Robert G. Blabey. *B.A., Hamilton, 1963; M.D., Columbia, 1967*
M. Michele Blackwood. *B.A., Georgetown, 1983; M.D., South Carolina, 1988*
Sherman M. Bull. *B.A., Yale, 1958; M.D., Columbia, 1962*
Harold S. Gewirtz. *B.A., Pennsylvania, 1971; M.D., Johns Hopkins, 1975*
Robert M. Lincer. *B.A., M.D., Boston, 1981*
Charles E. Littlejohn. *B.A., Dartmouth, 1974; M.D., 1978*
David M. Reed. *B.S., M.S., Tufts, 1972; M.D., Thomas Jefferson, 1978*
Chan-Kook Rha. *M.D., National (Seoul, Korea), 1964*
Arthur R. Rosenstock. *B.S., Maryland, 1969; M.D., Free University of Bruxelles (Belgium), 1976*
Harvey P. Rubin. *B.A., Connecticut, 1954; M.D., Vermont, 1958*
Douglas R. Smego. *B.S., Notre Dame, 1973; M.D., University of Medicine and Dentistry of New Jersey, 1977*
Tyr O. Wilbanks. *B.A., California (Berkeley), 1979; M.D., Cornell, 1983*

INSTRUCTORS IN CLINICAL SURGERY

Philip R. Corvo, M.D.
Jennifer O. Pogue, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

PROFESSORS

Constantine E. Anagnostopoulos. *B.A., Georgetown, 1959; M.D., 1963; D.Sc., Athens, 1967*
M. D. Tilson (Ailsa Mellon Bruce Professor). *B.A., Rice, 1963; M.D., Yale, 1967*

CLINICAL PROFESSOR

Thomas Dailey. *B.A., Princeton, 1957; M.D., Cornell, 1961*

ASSOCIATE PROFESSOR OF CLINICAL SURGERY

Stephan G. Lynn (also Medicine). *B.A., Swarthmore, 1969; M.D., Columbia, 1973*

ASSOCIATE CLINICAL PROFESSORS

Fadi F. Attiyeh. *B.S., American University of Beirut, 1965; M.D., 1969*
Richard A. Marks. *B.A., Harvard, 1965; M.D., 1968*
Robert E. Miller. *B.A., New York University, 1953; M.D., State University of New York (Downstate), 1957*
Howard R. Nay. *B.A., Virginia Military Institute, 1952; M.D., Columbia, 1956*
James B. Rodgers. *B.A., Virginia, 1944; M.D., 1948*
Mark R. Sultan. *B.A., Brandeis, 1978; M.D., Columbia, 1982*

ASSISTANT PROFESSORS OF CLINICAL SURGERY

Cliff P. Connery. *B.S., William and Mary, 1980; M.D., Eastern Virginia, 1984*
William G. Ramey. *B.A., Virginia, 1970; M.D., 1973*

ASSISTANT CLINICAL PROFESSORS

Darrick E. Antell. *B.S., Hobart, 1973; D.D.S., Case Western Reserve, 1978; M.D., Ohio, 1982*
Arnold H. Belgrater. *B.A., Boston, 1967; M.D., Columbia, 1971*
Mitchell A. Bernstein. *B.S., Michigan, 1983; M.D., Miami, 1989*
Peter A. Bossart. *B.A., Muhlenberg, 1947; M.D., Cornell, 1951*

Peter B. Cinelli. *B.A., Holy Cross, 1960; M.D., Johns Hopkins, 1964*
Michael Kalisman. *M.D., Hebrew (Hadassah), 1973*
Fred M. Kimmelstiel. *B.A., Queens (New York), 1974; M.D., New York Medical College, 1980*
James A. MacDonald. *B.A., Princeton, 1948; M.D., Columbia, 1950*
Donna Maria Mendes. *B.A., Hofstra, 1973; M.D., Columbia, 1977*
Eric D. Moore. *B.A., Harvard, 1969; M.D., Columbia, 1975*
Robert J. Mulcare. *B.A., Princeton, 1957; M.D., Columbia, 1961*
Edward W. Powers. *M.S., Fordham, 1964; M.D., State University of New York (Downstate), 1968*
Alexander J. Swistel. *B.A., Harvard, 1971; M.S., Rutgers, 1973; M.D., Brown, 1975*
James H. Terry, Jr. *B.S., Arizona, 1949; M.D., Columbia, 1953*
Jerald A. Wishner. *B.S., Northwestern, 1984; M.D., 1988*
Chin Bor Yeoh. *B.A., Yale, 1953; M.D., Harvard, 1957*

SPECIAL LECTURER
James E. Norris, M.D.

INSTRUCTORS
James McPherson, M.D.
Raymond V. Wedderburn, M.D.

INSTRUCTORS IN CLINICAL SURGERY
Elie F. Harouche, M.D.
B. Smith Hopkins, M.D.
Richard H. Karpinksi, M.D.
John J. Keyser, M.D.
F. Frederic Khoury, M.D.
Ronald M. Linder, M.D.
Dianne R. Lorieo, M.D
Ann M. Rogers, M.D.
Frank A. Veteran, M.D.

UROLOGY

JOHN K. LATTIMER PROFESSOR AND CHAIRMAN
Carl A. Olsson. *B.A., Bowdoin, 1959; M.D., Boston, 1963*

AT COLUMBIA-PRESBYTERIAN MEDICAL CENTER

PROFESSORS
Mitchell Clark Benson (George F. Cahill Professor). *B.S., Union, 1973; M.D., Columbia, 1977*
Terry W Hensle. *B.S., Pennsylvania, 1964; M.D., Cornell, 1968*
Steven Kaplan (Given Foundation Professor). *B.S., City University of New York (Brooklyn), 1978; M.D., Mount Sinai, 1982*
Ihor Steven Sawczuk. *B.A., New York University, 1974; M.D., Medical College of Pennsylvania, 1979*

PROFESSOR OF ANATOMY & CELL BIOLOGY
Anthony Bellve (also in the Center for Reproductive Sciences). *B.Ag.Sc., Massey (New Zealand), 1964; M.Ag.Sc., 1967; Ph.D., North Carolina State, 1970*

PROFESSOR OF RADIOLOGY
Jeffrey H. Newhouse. *B.A., Princeton, 1963; M.D., Harvard, 1967*

PROFESSOR OF CLINICAL PATHOLOGY
Paul B Fisher. *B.A., Hunter, 1968; M.A., Lehman, 1971; Ph.D., Rutgers, 1974*

PROFESSOR OF CLINICAL UROLOGY
Peter J. Puchner. *B.A., Carleton, 1958; M.D., Columbia, 1962*

ASSOCIATE PROFESSOR
Ridwan Shabsigh. *M.D., Damascus (Syria), 1976*

ASSOCIATE PROFESSOR OF PATHOLOGY
Ralph Buttyan. *B.S., Pittsburgh, 1974; M.S., Chicago, 1977; Ph.D., 1980*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY
Kevin A. Burbige. *B.A., Siena, 1972; M.D., Wayne State, 1976*

ASSISTANT PROFESSORS
John P. Connor. *M.B., B.Ch., Royal (Ireland), 1983*
Harry Fisch. *B.A., State University of New York (Binghamton), 1979; M.D., Mt. Sinai, 1983*
John R. Franklin. *B.A., City University of New York (Queens), 1984; M.A., 1984; M.D., Columbia, 1988*
Erik T. Goluboff. *B.A., Columbia, 1986; M.D., Johns Hopkins, 1990*
Mantu Gupta. *B.S., Northwestern, 1987; M.D., 1989*
Aaron E. Katz. *B.S., Carnegie-Mellon, 1982; M.D., New York Medical College, 1986*
Alexis E. Te. *M.D., Cornell, 1988*

ASSISTANT PROFESSOR OF UROLOGIC SCIENCE
Cathy L. Mendelsohn (also in the Institute of Human Nutrition). *B.S., Massachusetts, 1981; Ph.D., Columbia, 1989*

ASSISTANT PROFESSORS OF CLINICAL UROLOGY
John D. Birkhoff. *B.A., Harvard, 1964; M.D., Columbia, 1969*
Ben Z. Jacobs. *B.A., Columbia, 1981; M.D., New York University, 1985*

ASSISTANT CLINICAL PROFESSORS
John P. Grant. *B.A., Amherst, 1954; M.D., Columbia, 1962*
Simon Saada. *B.S., 1964; M.B., Ch.B., 1970*
Steven Y. Tennenbaum. *B.S., City College of New York, 1980; M.D., Albert Einstein, 1984*
Michael H. Wechsler. *B.S., Trinity, 1961; M.D., St. Louis, 1965*

ASSOCIATE RESEARCH SCIENTISTS
Min-Wei Chen. *Ph.D., Antwerp (Belgium), 1984*
Thambi Dorai. *B.S., Madras (India), 1970; M.S., 1973; Ph.D., 1978*
Rahul Gopalkrishnan. *B.S., Bombay (India), 1984; M.S., Baroda (India), 1986; Ph.D., Indian Institute of Science (Banglore, India), 1992*
Zhao-Zhong Su. *B.S., Shanghai (China), 1967; Ph.D., Liber de Bruxelles (Belgium), 1984*

SPECIAL LECTURER
Peter N. Desanctis, M.D.

SENIOR LECTURER
Abraham L. Kierszenbaum, Ph.D.

LECTURERS
Stanley H. Boczko, M.D.
Bernard H. Fagin, M.D.
Domingo Favale, M.D.
Bhagwant Gill, M.B., B.S.
Marc C. Janis, M.D.

George Klafter, M.D.
Eliahu Laor, M.D.
Seth E. Lerner, M.D.
Edward N. Moss, M.D.
Jay A. Motola, M.D.
Raphael Novogrodsky, M.D.
Roberto E. Reid, M.D.
Bhupendra M. Tolia, M.B., B.S.
Laura L. Tres, Ph.D.
Michael C. Young, M.D.

ASSOCIATES IN CLINICAL UROLOGY
Leonard J. Rudin, M.D.
Charles E. Umhey, Jr., M.D.
James A. Umhey, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Luis M. Abreu, M.D.
Edward F. Ikeguchi, M.D.
Arthur G. Krohn, M.D.
Richard Kroll, M.D.
Gregory A. Pappas, M.D.

AT MARY IMOGENE BASSETT HOSPITAL

INSTRUCTOR IN CLINICAL UROLOGY
Kwabena Ansong. *M.B., Ch.B., Ghana, 1975*

AT HARLEM HOSPITAL CENTER

ASSISTANT PROFESSOR OF CLINICAL UROLOGY
Gerald Hoke. *B.A., New York University, 1979; M.D., Cornell, 1983*

ASSISTANT CLINICAL PROFESSOR OF UROLOGY
Brian K. Davis-Joseph. *B.S., Georgetown, 1986; Columbia, 1990*

INSTRUCTOR IN CLINICAL UROLOGY
Brian A. Stone, M.D.

AT LAWRENCE HOSPITAL

LECTURER
Joseph Putignano, M.D.

AT OVERLOOK HOSPITAL

ASSISTANT PROFESSORS OF CLINICAL UROLOGY
Jose D. Contreras. *M.D., Santo Domingo, 1961*
Joseph Spencer Ritter. *M.D., Seton Hall, 1963*

ASSOCIATES IN CLINICAL UROLOGY
Pascal A. Pironti, M.D.
Morey Wosnitzer, M.D.

AT ST. LUKE'S-ROOSEVELT HOSPITAL CENTER

PROFESSOR OF CLINICAL UROLOGY
Nicholas A. Romas. *B.A., Colgate, 1958; M.D., Columbia, 1962*

ASSOCIATE PROFESSOR OF CLINICAL UROLOGY
Franklin Charles Lowe. *B.A., Princeton, 1975; M.P.H., M.D., Columbia, 1979*

ASSOCIATE CLINICAL PROFESSOR
Joseph N. Ward. *M.B., Ch.B., University College (Dublin), 1949*

ASSISTANT PROFESSOR OF CLINICAL UROLOGY
David G. Kaufman. *B.S., City College of New York, 1980; M.D., State University of New York (Stony Brook), 1982; Columbia, 1979*

ASSISTANT CLINICAL PROFESSOR
Robert D. Wickham. *B.A., Drew, 1947; M.D., State University of New York (Albany), 1952*

ASSOCIATE RESEARCH SCIENTIST
Daniel Joseph Hryb. *Ph.D., City University of New York, 1972*

LECTURERS
Harry T. Josifidis, M.D.
Carl M. Pellman, M.D.

ASSOCIATES IN CLINICAL UROLOGY
William Reid Pitts, Jr., M.D.
Arumbi P. Subramaniam, M.D.

INSTRUCTOR
Norman H. Coleburn, M.D.

INSTRUCTORS IN CLINICAL UROLOGY
Walter Ivey Delph, M.D.
Jose V. Silva, M.D.
Alexander Sotiropoulos, M.D.
Damir Velcek, M.D.

AT WHITE PLAINS HOSPITAL

LECTURER
George Owens, M.D.

OFFICIAL REGULATIONS

RESERVATION OF UNIVERSITY RIGHTS

This bulletin is intended for the guidance of persons applying for or considering application for admission to Columbia University and for the guidance of Columbia students and faculty. The bulletin sets forth in general the manner in which the University intends to proceed with respect to the matters set forth herein, but the University reserves the right to depart without notice from the terms of this bulletin. The bulletin is not intended to be and should not be regarded as a contract between the University and any student or other person.

UNIVERSITY REGULATIONS

According to University regulations, each person whose registration has been completed will be considered a student of the University during the term for which he or she is registered unless the student's connection with the University is officially severed by withdrawal or otherwise. No student registered in any school or college of the University shall at the same time be registered in any other school or college, either of Columbia University or of any other institution, without the specific authorization of the dean or director of the school or college of the University in which he or she is first registered.

The privileges of the University are not available to any student until he or she has completed registration. A student who is not officially registered for a University course may not attend the course unless granted auditing privileges. No student may register after the stated period unless he or she obtains the written consent of the appropriate dean or director.

The University reserves the right to withhold the privilege of registration or any other University privilege from any person with an unpaid debt to the University.

ATTENDANCE AND LENGTH OF RESIDENCE

The minimum residence requirement for each Columbia degree is 30 points of course work completed at Columbia University.

Students are held accountable for absences incurred owing to late enrollment.

A student in good standing may, for a valid reason, be granted a leave of absence by the Dean of the School.

RELIGIOUS HOLIDAYS

It is the policy of the University to respect its members' religious beliefs. In compliance with New York State law, each student who is absent from school because of his or her religious beliefs will be given an equivalent opportunity to register for classes or make up any examination, study, or work requirements that he or she may have missed because of such absence on any particular day or days. No student will be penalized for absence due to religious beliefs, and alternative means will be sought for satisfying the academic requirements involved.

Officers of administration and of instruction responsible for scheduling of academic activities or essential services are expected to avoid conflict with religious holidays as much as possible. If a suitable arrangement cannot be worked out between the student and the instructor involved, they should consult the appropriate dean or director. If an additional appeal is needed, it may be taken to the Provost.

ACADEMIC DISCIPLINE

The continuance of each student upon the rolls of the University, the receipt of academic credits, graduation, and the conferring of any degree or the granting of any certificate are strictly subject to the disciplinary powers of the University.

RULES OF UNIVERSITY CONDUCT

The Rules of University Conduct (Chapter XLI of the Statutes of the University) provide special disciplinary rules applicable to demonstrations, rallies, picketing, and the circulation of petitions. These rules are designed to protect the rights of free expression through peaceful demonstration while at the same time ensuring the proper functioning of the University and the protection of the rights of those who may be affected by such demonstrations.

The Rules of University Conduct are University-wide and supersede all other rules of any school or division. Minor violations of the Rules of Conduct are referred to the normal disciplinary procedures of each school or division ("Dean's Discipline"). A student who is charged with a serious violation of the Rules has the option of choosing Dean's Discipline or a more formal hearing procedure provided in the Rules.

All University faculty, students, and staff are responsible for compliance with the Rules of University Conduct. Copies of the full text are available in FACETS, the University student handbook (http://www.columbia.edu/cu/facets/), and at the Office of the University Senate, 406 Low Memorial Library.

POLICY STATEMENT ON DISCRIMINATION AND HARASSMENT

The following statement was adopted by the University Senate on April 27, 1990.

As a great center of learning, Columbia University prides itself on being a community committed to free and open discourse and to tolerance of differing views. We take pride, too, in preparing the leaders of our society and exemplifying the values we hope they will uphold. These commitments are subverted by intolerance, bigotry, and harassment. Even in recent history, we must recognize race, ethnicity, religion, gender, sexual orientation, disability, and other irrelevancies have all occasioned attacks by the ignorant, the foolish, the sick, the evil. Instead of enjoying our differences and the richness they bring to our shared lives, some have chosen to make those differences the targets of anger and hate. As a community, we are committed to the principle that individuals are to be treated as human beings rather than dehumanized by treatment as members of a category that represents only one aspect of their identity.

This University resolutely condemns conduct that makes such targets of our differences. The free exchange of ideas central to the University can take place only in an environment that is based on equal opportunity for admission to academic and other programs and to employment, and on freedom from behavior that stigmatizes or victimizes others. All decisions concerning an individual's admission to or participation in any University program must be based on that individual's qualifications, free of stigmatizing consideration of race, color, national or ethnic origin, religion, disability, gender, sexual orientation, marital status, age, citizenship, or Vietnam era or disabled veteran status. Nor will Columbia tolerate any behavior that harasses members of the community on the basis of any of these qualities. Such behavior will be regarded as a violation of the standards of conduct required of any person associated with the University and will subject the person guilty of it to the full range of internal institutional discipline, including permanent separation. While mediation and consensual resolution are of course to be encouraged, we also recognize

the right of all persons who believe themselves to have been the targets of such behavior to institute a formal grievance. Coercion to require them to overlook or retract their complaints fosters discrimination and harassment and is equally intolerable in our community.

It is not enough to be prepared to respond when ugliness appears. Members of a community such as ours must work preventively as well, to ensure that all our dealings with each other are marked by decency and characterized by civility. Columbia is committed to do what it can to engender mutual respect, understanding, and empathy. The University acknowledges a special responsibility to develop sensitivity to the concerns of those who are most vulnerable to discrimination and harassment.

STATEMENT OF NONDISCRIMINATORY POLICIES

The University is publishing the following statements in accordance with certain federal, state, and local statutes and administrative regulations:

Consistent with the requirements of Title IX of the Education Amendments of 1972, as amended, and regulations thereunder, the University does not discriminate on the basis of sex in the conduct or operation of its education programs or activities (including employment therein and admission thereto). Inquiries concerning the application of Title IX may be referred to Ms. Beth Wilson, Associate Provost, who heads the University's Office of Equal Opportunity and Affirmative Action (402 Low Memorial Library, Mail Code 4333, 535 West 116th Street, New York, NY 10027, telephone 212-854-5511), or to the Director, Office for Civil Rights (Region II), 26 Federal Plaza, New York, NY 10278.

Columbia University admits students of any race, color, national and ethnic origin, and age to all the rights, privileges, programs, and activities generally accorded or made available to students at the University. It does not discriminate against any person on the basis of race, color, national and ethnic origin, or age in administration of its educational policies, admissions policies, scholarship and loan programs, and athletic and other University-administered programs.

Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination against any person on the basis of race, color, or national origin in programs or activities receiving federal financial assistance. Title VII of the Civil Rights Act of 1964, as amended, prohibits employment discrimination against any person because of race, color, religion, sex, or national origin. Executive Order 11246, as amended, prohibits discrimination in employment because of race, color, religion, sex, or national origin and requires affirmative action to ensure equality of opportunity in all aspects of employment. In addition, the New York Human Rights Law, Article 15, Executive Law Section 296 prohibits discrimination against any person in employment because of age, race, creed, color, national origin, disability, sex, marital status, and genetic predisposition or carrier status.

Consistent with the requirements of Section 504 of the Rehabilitation Act of 1973, as amended, and regulations thereunder, the University does not discriminate against any person on the basis of disability in admission or access to, or employment or treatment in, its programs and activities. Section 503 of the Rehabilitation Act of 1973, as amended, requires affirmative action to employ and advance in employment qualified workers with disabilities. The Americans with Disabilities Act of 1990 also prohibits discrimination in public accommodation and in employment against qualified persons with disabilities. It requires the University to provide qualified applicants and employees with reasonable accommodations that do not impose undue hardship or pose a direct threat of harm to themselves or others.

The Equal Pay Act of 1963 prohibits discrimination on the basis of sex in rates of pay. The Age Discrimination in Employment Act of 1967, as amended, prohibits discrimination in employment on the basis of age. The Age Discrimination Act of 1975 prohibits discrimination on the basis of age in programs and activities receiving federal financial assistance.

Section 313 of the New York Education Law, as amended, prohibits educational institutions from discriminating against persons seeking admission as students to any institution, program, or course because of race, religion, creed, sex, color, marital status, age, or national origin. The New York City Human Rights Law, Title 8, Section 8-107, makes it an unlawful discriminatory practice for an employer to discriminate against any person because of their age, race, creed, color, national origin, gender, disability, marital status, sexual orientation, or alienage or citizenship status. It also prohibits educational institutions from discriminating against persons in any of the above categories in the provision of certain accommodations, advantages, facilities, or privileges.

On December 1, 1978, the Columbia University Senate passed a resolution announcing its general educational policy on discrimination, which reaffirms the University's commitment to nondiscriminatory policies and practices. The Senate reaffirmed this policy on April 27, 1990, by expanding the categories protected from discrimination and adding protection against harassment as well. Currently, the policies protect against discrimination and harassment on the basis of race, color, gender, religion, national and ethnic origin, age, disability, marital status, sexual orientation, and status as a Vietnam era or disabled veteran.

The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, (38 U.S.C. 4212), prohibits job discrimination and requires affirmative action to employ and advance in employment qualified special disabled veterans and veterans of the Vietnam era.

All employees, students, and applicants are protected from coercion, intimidation, interference, or retaliation for filing a complaint or assisting in an investigation under any of the foregoing policies and laws.

The University's Office of Equal Opportunity and Affirmative Action has been designated to coordinate compliance activities under each of the programs referred to above. Any employee who believes that he or she has been denied equal opportunity should contact this office, which may informally investigate complaints and offer advice and counsel on questions relating to equal opportunity and affirmative action, including information about applicable formal grievance procedures and agencies where complaints may be filed.

DISCRIMINATION GRIEVANCE PROCEDURE

The University's Discrimination Grievance Procedure is available to enrolled students who feel that they have been the victims of sexual harassment or discrimination on the basis of race, color, religion, national or ethnic origin, sex, sexual orientation, marital status, age, disability, citizenship, or Vietnam era or qualified special disabled veteran status. A copy of the Procedure is available in FACETS, the University student handbook, and in the office of the Associate Provost for Equal Opportunity and Affirmative Action, 402 Low Memorial Library or 101 Bard Hall; telephone: (212) 854-5511.

A complaint under this Procedure is initiated through a written complaint filed with the Equal Opportunity and Affirmative Action Office. Staff in that office will assist with filing the complaint and are also available for confidential counseling and informal investigation of discrimination claims.

COLUMBIA UNIVERSITY OMBUDS OFFICE

The Ombuds Office is a neutral and confidential resource for informal conflict resolution, serving the entire Columbia University community—students, faculty, and employees.

For further information, contact Marsha Wagner, Ombuds Officer, 660 Schermerhorn Extension; telephone: (212) 854 1234; fax: (212) 854-6046; e-mail: ombuds@columbia.edu. On Wednesdays the Ombuds Officer is at the Health Sciences campus office, 101 Bard Hall, 50 Haven Avenue; telephone: (212) 304-7026.

THE FEDERAL FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

The University abides by the provisions of the Federal Family Educational Rights and Privacy Act of 1974. This act insures a wide range of rights, including but not limited to: information about student records that the University maintains, who maintains them, who has access to them, and for what purposes access is granted. The act also permits the University to release "directory information" without a student's consent. In addition, the act guarantees students access to their records and restricts the access of others.

Students who wish to restrict access to their directory information may do so at the Registrar's Office, 205 Kent. This same office can provide a set of guidelines and a policy statement. The guidelines are also available on ColumbiaWeb and in the current edition of FACETS. Questions about the interpretation of the guidelines should be referred to the University's General Counsel, 412 Low Library.

TRANSCRIPTS AND CERTIFICATION

The amended Family Educational Rights and Privacy Act (FERPA) of 1974 prohibits release of educational records without the written consent of the student (for certain exceptions and further restrictions, consult FACETS, the University student handbook). You may obtain an official transcript of your academic record at Columbia University by writing to: Office of the Registrar, Columbia University, Mail Code 9202, 1140 Amsterdam Avenue, New York, NY 10027, Attention: Transcripts; or Student Administrative Services, Columbia University, Room 141, Black Building, 650 West 168th Street, New York, NY 10032, Attention: Transcripts.

Please include the following information with your request: current and former names; Social Security number; schools attended and dates of attendance; degrees awarded and dates awarded; number of transcripts desired and complete address for each; your current address and telephone number; and your signature authorizing the release of your transcript. You may also order transcripts in person at 205 Kent Hall on the Morningside campus (9 a.m.-5 p.m., Monday-Friday) or at Room 141 of the Black Building on the Health Sciences campus (9 a.m.-4:30 p.m., Monday-Friday). Currently enrolled students may order transcripts for themselves and for colleges and universities via the Student Services page on the World Wide Web at http://www.columbia.edu/cu/students/. There is no charge for issuing transcripts; however, all students pay a one-time transcript fee of $45 upon their first registration at the University. The normal processing time for transcripts is two to three business days. If you mail in your request for a transcript, you should allow several additional days for delivery to and from the University.

You may order certifications of your enrollment and degrees via mail or in person, as described above. When requesting a certification by mail, include the notation "Attention: Certifications" on your envelope. Certifications are provided while you wait if you come to Kent Hall or the Black Building to request them. There is no charge for certifications.

NEW YORK STATE LAW ON MEASLES INOCULATION

Under New York State Law, as of September 1991, any student born after January 1, 1957, and enrolled for 6 or more points must be vaccinated twice after his or her first birthday against measles. If a student cannot prove that he or she has been vaccinated twice or that he or she has had the measles or is immune, that student may not attend classes, participate in University-sponsored events, or come onto campus. For more information regarding the state law, students should contact the University Health Services Measles Line at (212) 854-7210. Such students must also demonstrate immunity for mumps and rubella (German measles).

DISABILITY SERVICES

Columbia is committed to serving the needs of students with disabilities. Services to students with permanent or temporary disabilities are coordinated by the University Office of Disability Services. Disability Services works in conjunction with the College of Physicians and Surgeons to support its academic program and standards and to meet students' disability needs.

The University Office of Disability Services provides a variety of services, programs, and resources to allow students with disabilities full participation in the academic and campus experience. Students are expected to identify their disability and to provide current and appropriate medical or diagnostic documentation before any accommodations can be considered. In cases involving students with learning disabilities, appropriate documentation should typically be no more than five years old in order to provide an assessment of the student's adult level of learning skills and style and must include a report summary and complete test battery scores. To allow sufficient time for review of needs and implementation of accommodations, students with disabilities are encouraged to contact Disability Services upon acceptance to discuss their specific disability needs and to plan any academic accommodations that may be necessary.

For information, contact Dr. Lynne Bejoian, Director, Columbia University Office of Disability Services, 305 Low Library, Mail Code 4322, 535 West 116th Street, New York, NY 10027; (212) 854-2388 (voice/TDD); fax: (212) 854-3448; e-mail: disability@columbia.edu.

PROTECTION AGAINST SEXUAL HARASSMENT

POLICY STATEMENT ON SEXUAL HARASSMENT

Federal law, including Title VII of the Civil Rights Act of 1964, provides that it shall be unlawful discriminatory practice for any employer, because of the sex of any person, to discharge without just cause, to refuse to hire, or otherwise to discriminate against that person with respect to any matter directly or indirectly related to employment. Harassment of any employee on the basis of sex violates this federal law.

To help clarify what is unlawful sexual harassment the Federal Equal Employment Opportunity Commission (EEOC) has issued Guidelines on the subject. While the EEOC Title VII Guidelines apply only to faculty and other employees, Title IX, administered by the U.S. Education Department's Office for Civil Rights (OCR), also protects students from sexual harassment. Accordingly, the University prohibits sexual harassment of any member of the Columbia community, whether such harassment is aimed at students, faculty, or other employees, and violators will be subject to disciplinary action. Unwelcome sexual advances, requests for sexual favors, and other verbal or physical conduct of a sexual nature will constitute sexual harassment when:

1. submission to such conduct is made either explicitly or implicitly a term or condition of an individual's employment;

2. submission to or rejection of such conduct by an individual is used as the basis for academic or employment decisions affecting that individual; or,

3. such conduct has the purpose or effect of unreasonably interfering with an individual's academic or work performance or creating an intimidating, hostile, or offensive academic or working environment.

Any person who believes that he or she is being sexually harassed may choose to seek a resolution of the problem through discussion with the person directly concerned. If this does not resolve the matter, or if there is a reluctance to deal directly with the person involved, the problem should then be brought to the attention of a member of the University Panel on Sexual Harassment. Advice may also be sought from the Office of Equal Opportunity and Affirmative Action, 402 Low Memorial Library or 101 Bard Hall, (212) 854-5511, or the Ombuds Office, 402 Hamilton Hall or 101 Bard Hall, (212) 854-1234. If these steps do not resolve the problem, the applicable University grievance procedure should be used. The University Discrimination Grievance Procedure is available if no other University grievance procedure is specifically applicable. No one at the University may retaliate in any way against a person who makes a claim of sexual harassment.

CHARGE OF THE UNIVERSITY PANEL ON SEXUAL HARASSMENT

The Columbia Panel on Sexual Harassment is composed of trusted, accessible, and sympathetic members of the University community who act as informal mediators. Their goal is the protection and counsel of any member of the University who is made to feel personally pressured or uncomfortable because of the behavior of another University member. Members of the Panel provide a safe, impartial, nonadversarial setting in which the problem can be considered or solved through confidential counseling and, when requested, mediation between the complainant and the alleged harasser. The Panel thus provides guidance and protection for the accused as well, identifying false or mistaken accusations, misunderstandings, or unconscious behavior. Panel members are also a link through which the University can take account of, and take appropriate action against, those on campus who are behaving illegally. The Panel on Sexual Harassment is a timely, protective, and compassionate arm of the University, one that not only sensitizes and educates the University community but also demonstrates the University's commitment to fair treatment of all its members.

PANEL MEMBERSHIP LIST

Names and contact information for members of the Columbia Panel on Sexual Harassment can be found in Appendix F of FACETS, the University student handbook.

SEXUAL MISCONDUCT POLICY AND ALTERNATIVE PROCEDURE

On April 27, 1995, the University Senate adopted a Sexual Misconduct Policy and grievance procedure that can be used as an alternative to traditional Dean's Discipline. The Sexual Misconduct Policy applies to students in all schools on the Morningside campus, all schools on the Health Sciences campus, Barnard College, and Teachers College. The alternative disciplinary procedure applies to these same groups (through April 2000, unless extended), with the exception of the Law School. The policy prohibits sexual assault of one student against another student. A comprehensive program to address the issue has also been developed. Copies of the policy and alternative procedure are available through Columbia's Office of Equal Opportunity and Affirmative Action, 402 Low Memorial Library or 101 Bard Hall; mailing address: Mail Code 4333, 535 West 116th Street, New York, NY 10027; telephone: (212) 854-5511; fax: (212) 854-1368. A brief summary description of the policy, procedure, and program follows.

POLICY

Columbia University's policy defines sexual misconduct as nonconsensual, intentional physical contact with a person's genitals, buttocks, and/or breasts. Lack of consent may be inferred from the use of force, coercion, physical intimidation, or advantage gained by the victim's mental and/or physical impairment or incapacity, of which the perpetrator was, or should have been, aware.

ALTERNATIVE PROCEDURE

The alternative procedure may be chosen in lieu of traditional Dean's Discipline, Columbia's sexual harassment procedure, or informal internal means of mediated resolution, by a student who alleges he or she has been the victim of sexual assault in violation of the University's policy. It can be initiated by contacting a Gatekeeper or the Associate Provost for Equal Opportunity and Affirmative Action and filing a complaint. If the established criteria are met and the situation is not otherwise resolved, a hearing may be convened before a three-member hearing panel consisting of one student, one faculty member, and one administrator. The complainant and the accused will be asked to provide information to the panel and, along with other information made available, it will be used to make a determination of guilt or innocence and any disciplinary action deemed warranted. The determination is sent as a recommendation to the Dean of Students of the accused's school, whose decision is final. There are appeal avenues at various stages of the procedure available to the complainant and the accused.

HEARING PANELISTS

Hearing Panelists are selected by the Associate Provost from a pool of students, faculty members, and officers of administration. None of the panelists will be from the school/department of the complainant or accused or closely affiliated with either party.

GATEKEEPERS

Twelve Associate or Assistant Deans have been appointed and trained to provide information about the policy and alternative procedure as well as other options for dealing with a sexual assault. They can also receive complaints for mediation, investigation, and formal or informal resolution. Any one of the Gatekeepers may be contacted for information or advice or to report an incident of sexual misconduct. Gatekeepers cannot accept complaints by or against students in their own schools.

For a current list of Gatekeepers or for additional information, please contact the Office of Equal Opportunity and Affirmative Action, (212) 854-5511.

ROMANTIC RELATIONSHIP ADVISORY STATEMENT

Faculty and staff members are cautioned that consensual romantic relationships with student members of the University community, while not expressly prohibited, can prove problematic. A faculty or staff member involved in such a relationship with a student is expected to remove him/herself from academic or professional decisions concerning the student. The Provost has, however, authorized some departments to adopt more restrictive policies. Individuals with questions about the position of their department are encouraged to raise them with their department head.

Should a romantic relationship with a student lead to a charge of sexual harassment against a faculty or staff member, the University will pursue it in accordance with its Sexual Harassment Policy and applicable grievance procedure. Questions about this Advisory Statement may be directed to Associate Provost Beth Wilson, Office of Equal Opportunity and Affirmative Action, 402 Low Memorial Library or 101 Bard Hall, (212) 854-5511. For the complete statement, please see Appendix F of FACETS, the University student handbook.

CAMPUS SAFETY AND SECURITY

EMERGENCY NUMBERS

Morningside Campus: 99 (campus phones) or (212) 854-5555
Health Sciences Campus: 7-7979 (campus phones) or (212) 305-7979
New York Police Department: 93-911 (campus phones) or 911

COLUMBIA UNIVERSITY SECURITY OFFICES

MORNINGSIDE CAMPUS

111 Low Memorial Library
Mail Code 4301
535 West 116th Street
New York, NY 10027-7004
Information: (212) 854-2796
Emergency: (212) 854-5555

HEALTH SCIENCES CAMPUS

650 West 168th Street
New York, NY 10032-3702
(212) 305-8100
Emergency: (212) 305-7979

LAMONT-DOHERTY EARTH OBSERVATORY

Route 9W
Palisades, NY 10964-1707
(914) 359-2900

NEVIS PHYSICS LABORATORIES

136 South Broadway
Irvington, NY 10533-2500
(914) 591-8100

BARNARD COLLEGE

104 Barnard Hall
(212) 854-3362
Night Guard: (212) 854-3684

SECURITY AT COLUMBIA

At Columbia University, the safety and well-being of our students, faculty, and staff is our top priority. Columbia's campus and its environs are reasonably safe and relatively crime free for an urban university. Departments in the University help to keep the campus safe and secure, but a truly safe campus can be achieved only through the cooperation of all students, faculty, and staff. This statement is a part of the University's effort to ensure that this cooperative effort is effective. We hope that you will read it carefully and use the information to help make your Columbia experience a safe one for yourself and others on the University campus.

Columbia University is located in New York City, one of the most important and dynamic social, cultural, and educational centers of the world. Students and employees at Columbia have the opportunity to visit and partake of the city's varied cultural institutions, but please be aware that, like any other of the world's major metropolitan centers, New York City requires care and caution when you explore its many riches and attractions.

The University consists of a main campus located in the Morningside Heights section of Manhattan and a Health Sciences campus located in the Washington Heights area. The University maintains two research facilities off campus: Lamont-Doherty Earth Observatory in Palisades, NY, and Nevis Physics Laboratories in Irvington, NY. In addition to a physical fitness center located on the Morningside campus, there are also athletic facilities at Baker Field (West 218th Street and Broadway) and at the Health Sciences campus. Enrollment at Columbia University is approximately 19,500 students (graduate and undergraduate); its staff and faculty number approximately 9,000.

CAMPUS SECURITY

Both Columbia University and Barnard College employ their own uniformed security officers to patrol the campuses and surrounding areas 24 hours a day.

Security officers are responsible for a wide range of safety services that include responding to accidents, medical, or fire emergencies, and

requests for assistance; investigating and preparing incident reports (including reports of criminal activity); and coordinating police response functions. While neither Columbia nor contract security personnel are sworn law enforcement officers, they do receive regular in service training covering the arrest powers of nonpolice personnel and the New York State Penal and Criminal Procedural Law. There is also a heavy emphasis on human relations and sensitivity training.

Any student or University employee can report potential criminal actions and other emergencies on campus by simply dialing special emergency numbers any time of the day or night.

CAMPUS ACCESS

A variety of security measures are in place to ensure the safest possible environment both in and around Columbia University buildings.

At the Morningside campus, gate security officers are posted at West 116th Street and Broadway, West 116th Street and Amsterdam, and West 119th Street and Amsterdam. Two "safe corridor" areas are monitored by video cameras on the Morningside campus: West 114th Street between Broadway and Amsterdam Avenue, and the corner of West 113th Street and Broadway. On the Health Sciences campus, portions of West 168th Street and Haven Avenue also form a "safe corridor." Emergency call boxes located throughout the Morningside and Health Sciences campuses communicate directly with their respective security operations desks. The boxes are painted a bright yellow for easy recognition. Motorized and foot patrols, coordinated with neighborhood security organizations as well as the security departments of Barnard College, Teachers College, New York Presbyterian Hospital, and other affiliated institutions, patrol all campuses and their environs.

The Security Department provides 24-hour access control to the undergraduate residence halls through a combination of proprietary and contract security officers and specially trained student attendants. Access control is supplemented by an on-line computerized card access system linked to student identification cards. Security measures vary at graduate dormitories and University Apartment Housing (UAH) buildings.

The Office of Institutional Real Estate manages over 6,000 University-owned residential units, most of which are used to provide convenient and affordable housing for full-time faculty, students, and staff. The majority of these units are located in the area from West 109th to West 125th Street between Morningside and Riverside Parks in the area known as Morningside Heights. Some units are located on Haven Avenue between 169th and 173rd Streets and are used primarily to house students enrolled at the Health Sciences campus. These buildings are managed and operated by University employees. Superintendents reside either in, or in close proximity to, the buildings.

At selected academic buildings, a card access and alarm monitoring system, with video support monitored 24 hours a day, has been installed at the security operations desk. On the Health Sciences campus, valid Columbia University or Columbia-Presbyterian Medical Center identification badges are required for entry into the Physicians and Surgeons Building, Black Building, Georgian Residence, Hammer Health Sciences Center, Bard Hall, Bard-Haven Towers, 80 Haven Avenue, and 154 Haven Avenue.

The Security Department maintains an excellent liaison with the local police precincts, including cooperating in crime prevention strategies and an exchange of information whenever crimes are committed. The police also help to maintain a safer campus by providing extra coverage for special events that attract large crowds.

Off-campus student organizations recognized by the University are monitored by both the Security Department and local police precincts who provide patrol coverage and record any criminal activity at these locations. The Security Department checks daily with the precincts regarding any police presence at these locations.

CRIME PREVENTION AND INVESTIGATION

Crime prevention is a high priority in the Security Department. Living in a large city requires students and employees to practice sound crime prevention techniques when walking at night, riding the subway, safeguarding property, or the like. A Security Department Assistant Director of Investigations follows up on all reports of criminal activity; the reports are prepared by Security personnel by contacting the complainant to ensure that a thorough investigation is conducted. Where appropriate, police referrals are made by this manager.

Crime prevention lectures concerning personal property and safety are presented to various groups and campus organizations. During orientation week, members of the Security Department begin this educational process by presenting crime prevention information to incoming students. Throughout the year, the Security Operations Desk offers a variety of literature on specific ways to safeguard one's property and person. Safety and security information and training are continuously provided to students, staff, and faculty through bulletins, crime alerts, and a free newsletter published by the Security Department.

An escort service operates seven days a week during the school year from 8 p.m. to 3 a.m. During these hours, a call on the Morningside campus to (212) 854-SAFE (7233) will provide you with an escort to your destination within the campus area. Throughout the year, if you need an escort before 8 p.m. or after 3 a.m., call Security at (212) 854-2798. The Health Sciences campus provides an escort service within the Columbia-Presbyterian Medical Center area through the Security Department. A shuttle service is also available during stated hours within the Morningside Heights area and between the Morningside and Health Sciences campuses.

Security Advisory Committees, consisting of faculty, staff, students, and senior administrators, meet on a regular basis to discuss safety and security issues. In addition, walks are arranged through the entire campus to review lighting and other environmental factors affecting safety. Security input is also provided by the Institutional Real Estate staff, the University Residence Halls staff, the Office of the Assistant Dean for Residence Life, and the Undergraduate Dormitory Council. An Assistant Director of Security serves as an ongoing liaison with these organizations.

The Facilities Management Department maintains University buildings and grounds with a concern for safety and security. The Security Department, through patrols of buildings, informs Facilities Management of potential safety and security hazards such as broken windows and locks. On the Morningside campus, the Facilities Management Department is located in B-230 East Campus with 24-hour telephone coverage at (212) 854-2275. On the Health Sciences campus, they may be reached at the basement level of 650 West 168th Street, telephone (212) 305-7367 (weekday business hours) or after business hours, weekends, and holidays at (212) 305-8100.

CRIME STATISTICS

The Security Department maintains statistics for reported campus crimes. The following charts reflect those statistics. Please note that beginning January 1, 1993, the Security Department has maintained statistics for forcible and nonforcible sex offenses.

This information is published in compliance with the Student Right-to-Know and Campus Security Act of 1990, as amended.

MORNINGSIDE CAMPUS	1995	1996	1997	1998
Murder	0	0	0	0
Robbery	4	2	1	0
Aggravated Assault	3	9	6	4
Burglary	20	35	26	18
Motor Vehicle Theft	0	0	0	0
Sex Offenses: Forcible	2	2	1	0
Sex Offenses: Nonforcible	0	0	0	0

UNIVERSITY APARTMENT HOUSING (UAH)	1995	1996	1997	1998
Murder	0	0	1	1
Robbery	11	13	9	9
Aggravated Assault	5	2	1	7
Burglary	27	14	15	19
Motor Vehicle Theft	0	0	0	0
Sex Offenses: Forcible	0	3	0	2
Sex Offenses: Nonforcible	0	0	0	0

HEALTH SCIENCES CAMPUS	1995	1996	1997	1998
Murder	0	0	0	0
Robbery	4	0	0	0
Aggravated Assault	5	3	2	2
Burglary	10	5	3	9
Motor Vehicle Theft	0	1	0	0
Sex Offenses: Forcible	0	0	0	0
Sex Offenses: Nonforcible	0	0	0	0

LAMONT-DOHERTY EARTH OBSERVATORY	1995	1996	1997	1998
Murder	0	0	0	0
Robbery	0	0	0	0
Aggravated Assault	0	0	0	0
Burglary	0	0	0	0
Motor Vehicle Theft	0	0	1	0
Sex Offenses: Forcible	0	0	0	0
Sex Offenses: Nonforcible	0	0	0	0

NEVIS LABORATORIES	1995	1996	1997	1998
Murder	0	0	0	0
Robbery	0	0	0	0
Aggravated Assault	0	0	0	0
Burglary	0	0	0	0
Motor Vehicle Theft	0	0	0	0
Sex Offenses: Forcible	0	0	0	0
Sex Offenses: Nonforcible	0	0	0	0

BAKER FIELD	1995	1996	1997	1998
Murder	0	0	0	0
Robbery	0	0	0	0
Aggravated Assault	0	0	0	0
Burglary	0	0	0	1
Motor Vehicle Theft	0	0	0	0
Sex Offenses: Forcible	0	0	0	0
Sex Offenses: Nonforcible	0	0	0	0

During the above period of time, there were no weapons arrests and no arrests for liquor law or drug abuse violations at any campus. None of the crimes or violations reported manifest evidence of prejudice based on race, religion, sexual orientation, or ethnicity.

SEXUAL ASSAULT AND SEXUAL MISCONDUCT: RAPE AND OTHER SEX OFFENSES

Columbia University believes that sexual assault of any type is unacceptable, especially within the University environment, and strongly supports all efforts to eliminate its occurrence and to discipline offenders.

If you or someone you know has recently been raped or sexually assaulted, consult the list of services and resources below.

In a campus setting, sexual assault often occurs when one or both parties are intoxicated from alcohol or other drugs, or in connection with group activities where unanticipated social pressures may develop. Therefore, it is important to understand that intercourse or other sexual activity with a person unable to give free and full consent (e.g., because of intoxication, substance abuse, or intimidation) may constitute sexual assault or rape. Furthermore, the offender's use of a mind-altering substance does not in any way diminish his or her responsibility for abusive behavior.

Sexual assault refers to rape, sodomy, sexual abuse, and other nonconsensual sex offenses that are serious crimes under New York State law. Rape is an act of unwelcome penile/vaginal penetration, however slight, by forcible compulsion. Other sexual offenses under New York State law involve unwelcome physical contact with a person's genitals, buttocks, or breasts. In all cases, the force need not be overtly violent: the threat of force that places a person in fear of physical injury or kidnapping may be sufficient. A number of sexual offenses under New York State law involve nonforcible sexual, anal, or oral intercourse with someone under the age of seventeen. The severity of the offense depends in part on the ages of the parties. Criminal penalties in New York State for all such acts vary according to the circumstances, but can include prison sentences of up to twenty-five years.

Disciplinary action for sex offenses by Columbia students is conducted through the University's mechanism of Dean's Discipline. This mechanism is initiated by a complaint to the victim's Dean of Students or Dean for Student Affairs. After a complaint is lodged, the Dean of the school in which the accused is enrolled will conduct an investigation and hearing to determine culpability and the appropriate sanction, if any. Both the accused and the accuser are entitled to have others present during such proceedings, and both the accused and the accuser are informed of the outcome of such proceedings. Anyone may file a charge against a Columbia student.

A Columbia student who is found to have committed rape, sexual assault, or any other sex offense, either forcible or nonforcible, is subject to disciplinary action, which can include admonition, deprivation of certain privileges, probation, suspension, or expulsion.

On April 27, 1995, the University Senate adopted a Sexual Misconduct Policy and grievance procedure that can be used as an alternative to traditional Dean's Discipline. The Sexual Misconduct Policy applies to students in all schools on the Morningside campus, all schools on the Health Sciences campus, Barnard College, and Teachers College. The alternative disciplinary procedure applies to these same groups (through April 2000, unless extended), with the exception of the Law School. The policy prohibits sexual assault of one student against another student. A comprehensive program to address the issue has also been developed. Copies of the policy and alternative procedure are available through Columbia's Office of Equal Opportunity and Affirmative Action, 402 Low Memorial

Library or 101 Bard Hall; mailing address: Mail Code 4333, 535 West 116th Street, New York, NY 10027; telephone: (212) 854-5511; fax (212) 854-1368. Students can also find further information in Appendix E of FACETS, the University student handbook.

Columbia and the community offer a variety of counseling resources to survivors of sexual assault. The Counseling and Psychological Service of the Morningside Health Service is staffed with professional counselors, many of whom have received specific training in sexual assault crisis intervention and counseling. St. Luke's-Roosevelt Hospital Center, near the Morningside campus, and Columbia-Presbyterian Medical Center provide specialized Rape Intervention and Rape Crisis services, including medical attention, emotional support, and, if desired, assistance with evidence collection, police reporting, and prosecution. Mt. Sinai and Bellevue Hospitals in Manhattan provide similar services. Most facilities include bilingual staff. See the listing of resources below under Emergency Support Services for Sexual Assault.

Although rape and sexual assault are never the fault of the victim, the University urges you to be aware of your personal safety at all times. Read and study the Security information provided in FACETS and in other publications available at Security, and be aware of the effects of alcohol and other drugs and the dynamics of social gatherings.

IF YOU ARE THE VICTIM OF SEXUAL ASSAULT

Your safety and well-being are of paramount importance. Contact Security, the Police Department, your Dean's Office, the Columbia-Barnard Rape Crisis Center, a medical treatment facility, or any trusted friend, adviser, or faculty member as soon as possible. If someone you know has been assaulted, provide reassurance and support while such contact is made.

It is important that a person who has been recently assaulted receive prompt medical attention to ensure him/herself that he/she is medically well. Because physical injury is not always noticeable at first, it is important to receive a medical examination and treatment as soon as possible. These may include pelvic and rectal exams, screening and/or treatment for sexually transmitted diseases, and pregnancy prevention. The examination may also include the collection of medical evidence for use in prosecution, if the victim chooses. Without such evidence, which is collected only at hospitals, criminal charges may be difficult to substantiate. For this reason, victims/survivors should not bathe, douche, or change clothes before seeking medical treatment if the rape occurred within the previous 72 hours.

The University urges you to consider contacting the New York City Police Department to report the assault and to file criminal charges against your assailant. Security personnel will assist you and accompany you through the process. Although the University strongly encourages you to consider pressing criminal charges, the choice is yours.

Victims/survivors of sexual assault may seek alternative University housing and class arrangements, and the University is required to provide them if they are reasonably available. The Dean of Students or Dean for Student Affairs will arrange these accommodations. Generally, alternative University housing is available within 24 hours; alternative class arrangements depend on scheduling considerations and the availability of equivalent courses.

EMERGENCY SUPPORT SERVICES FOR SEXUAL ASSAULT

SECURITY SERVICES

Columbia's security services are available 24 hours a day. The office is able to arrange emergency transportation.

Morningside Heights (24 hours): 99 or (212) 854-5555

Barnard College (day): (212) 854-3362

Barnard College (night): (212) 854-3684

Health Sciences (24 hours): (212) 305-7979

HEALTH SERVICES

MORNINGSIDE CAMPUS:

Health Service (day): (212) 854-3187

Women's Health Center (day): (212) 854-4499

After-Hours Doctor-on-Call (night): (212) 415-0120

Health Sciences Campus:

Health Service (day): (212) 305-3400

After-Hours Doctor-on-Call (night): (212) 305-5549

Barnard College:

Health Services (day): (212) 854-2091

After-Hours Doctor-on-Call (night): (212) 666-5838

COUNSELING AND PSYCHOLOGICAL SERVICES

Morningside Campus (day only): (212) 854-2468

Barnard (day only): (212) 854-2091

Health Sciences Campus (day only): (212) 305-3400

OTHER COLUMBIA-AFFILIATED SUPPORT SERVICES

Columbia Undergraduate Deans of Students (24 hours). Contact your R.A. or Residence Hall Director.

Barnard Residence Life Staff (24 hours): Contact your building front desk.

Columbia-Barnard Rape Crisis/Anti-Violence Support Center (24 hours): (212) 854-HELP or (212) 854-WALK

St. Luke's-Roosevelt Crime Victims Treatment Center (day): (212) 523-4728

St. Luke's-Roosevelt Emergency: (212) 523-3335

Columbia-Presbyterian Medical Center VICTIMS Rape Crisis Services (day): (212) 305-9060

OTHER SUPPORT SERVICES

Mt. Sinai Rape Crisis Intervention Program (day): (212) 241-5461

Bellevue Hospital Crime Victims Program: (212) 562-3755

Victim Services Agency (day): (212) 874-0724; (24 hours) 577-7777

Samaritan Hotline (24 hours): (212) 673-3000

Domestic Violence Hotline (24 hours): (800) 942-6906; NYC: (800) 621-HOPE (4673)

Gay and Lesbian Anti-Violence Project (24 hours): (212) 807-0197

NEW YORK POLICE DEPARTMENT

New York City Police Department Emergency (24 hours): 911

NYPD Special Victims Squad: (212) 694-3010

NYPD Sex Crimes Hotline (information and advice): (212) 267-RAPE (7273). A female police officer will answer, or is available if you wish.

Columbia-Presbyterian Medical Center

COLUMBIA UNIVERSITY LIBRARIES
0050855450